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1730.

Apollo Anglicanus:

THE ENGLISH APOLLO

Aſſiſting
All Perſons in the Right Underſtanding of this YEAR's Revolutions, as alſo of Things paſt, preſent, and to come.

A twofold *Kalendar, viz. Julian* or *Engliſh*, and *Gregorian* or *Foreign* Computations, more plain and full than any other; with the Riſing and Setting of the Sun, the Nightly Riſing and Setting of the Moon, and alſo her Southing, exactly calculated for every Day.
Of General Uſe for moſt Men.

Being *Second* after *Biſſextile*, or *Leap-Year*
To which is added the Moon's Application to the fixed Stars: With the Calculations of the Eclipſes: Alſo Rules and Tables for the Meaſuring of Timber: With many other things both pleaſant, uſeful, and neceſſary.

Calculated according to ART, and fitted to the Meridian of *Leiceſter*, whoſe Latitude is 52 Degrees, 41 Minutes, exactly fitting all the middle Counties of *England*, and, without ſenſible Error, the whole Kingdom.

By *RICHARD SAUNDER*
Student in the Phyſical *and* Mathematical *Sciences*.

The Four and Fortieth Impreſſion of the ſame Author.

LONDON, Printed by A. WILDE,
for the Company of *STATIONERS*, 1730.

Ephemerides. k.

The *Julian*, or Old Account uſed in *England*.		1730.	The *Gregorian*, or New Stile uſed beyond Sea.	
	2	The Golden Number		2
	D	The Dominical Letter		A
	22	The Epact		11
February	8	Shrove-Sunday	February	5
May	7	Aſcenſion-Day	May	4
May	17	Whit-Sunday	May	14
November	29	Advent-Sunday	December	3

A Table of the TERMS and their Returns.

Hilary Term begins *Jan.* 23, and ends *Feb.* 12

Eſſoin-days.	*Except.*	*Ret. Brev.*	*Appear.*	
Octab. Hilar. Jan. 20	January 21	Jan. 22	Jan. 23	Fr
Quind. Hilar. Jan. 27	January 28	Jan. 29	Jan. 30	Fr
Craſtin. Purif. Feb. 3	Feb. 4	Feb. 5	Feb. 6	Fr
Octab. Purif. Feb. 9	Feb. 10	Feb. 11	Feb. 12	Th

Eaſter Term begins *April* 15, and ends *May* 11.

Quind. Paſc. April 13	April 14	April 14	April 15	W
Treſ. Paſch. April 20	April 21	April 21	April 22	W
Menſ. Paſch. April 27	April 28	April 28	April 29	W
Quinq. Paſch. May 4	May 5	May 5	May 6	W
Craſt. Aſcenſ. May 8	May 9	May 9	May 11	M

Trinity Term begins *May* 29, and ends *June* 17.

Craſt. Trin. May 25	May 26	May 27	May 29	Fr
Octab. Trin. June 1	June 2	June 2	June 3	W
Quind. Trin. June 8	June 9	June 9	June 10	W
Treſ. Trin. June 15	June 16	June 16	June 17	W

Michaelmas Term begins *Octob.* 23, ends *Nov.* 28.

Treſ. Mich. Octob. 20	Octob. 21	Octob. 22	Octo. 23	Fr.
Menſ. Mich. Octob. 27	Octob. 28	Octob. 29	Octo. 30	Fr.
Craſt. Anim. Nov. 3	Nov. 4	Nov. 5	Nov. 6	Fr.
Craſt Mart. Nov. 12	Nov. 13	Nov. 14	Nov. 16	M.
Octab. Mart. Nov. 18	Nov. 19	Nov. 20	Nov. 21	Sa.
Quind. Mart. Nov. 25	Nov. 26	Nov. 27	Nov. 28	Sa.

A TABLE of the KINGS and QUEENS of *England*, since the Conqueſt.

		Born Ann.	Began to reign.	Reign. Y.	M.	Since their Reign ended.	Buried at
William	1	1029	1060, Octob. 14	20	11	651, Septem. 9	Caen Nor.
William	2	1056	1087, Sept. 9	12	11	630, Auguſt 2	Wincheſt.
Henry	1	1068	1100, Aug. 2	35	4	595, Decemb. 1	Reading
Stephen		1105	1135, Dec. 1	18	11	576, Octob. 25	Feverſham
The *Saxon* Line reſtor'd.							
Henry	2	1132	1154, Octo. 25	35	9	541, July 6	Fountever
Richard	1	1155	1189, July 6	9	9	531, April 6	Fountever
John		1165	1199, April 6	17	6	514, Octob. 19	Worceſter
Henry	3	1207	1216, Octo. 19	56	1	458, Nov. 16	Weſtmin.
Edward	1	1239	1272, Nov. 16	34	8	423, July 7	Weſtmin.
Edward	2	1283	1307, July 7	19	7	404, Jan. 25	Glouceſter
Edward	3	1312	1326, Jan. 25	51	5	353, June 21	Weſtmin.
Richard	2	1366	1377, Jun. 21	22	3	331, Sept. 29	Weſtmin.
The Line of *Lancaſter*.							
Henry	4	1367	1399, Sept. 29	13	6	319, March 20	Canterb.
Henry	5	1386	1412, Mar. 20	9	5	309, Auguſt 31	Weſtmin.
Henry	6	1421	1422, Aug. 31	38	6	270, March 4	Windſor
The Line of *York*.							
Edward	4	1442	1461, Mar. 4	25	1	247, April 9	Wincheſt.
Edward	5	1471	1483, April 9	0	1	246, June 18	Not know.
Richard	3	1448	1483, June 18	2	2	245, Auguſt 22	Leiceſter
The Families United.							
Henry	7	1455	1485, Aug. 22	23	6	221, April 22	Weſtmin.
Henry	8	1491	1509, April 22	37	10	182, Jan. 28	Windſor
Edward	6	1537	1547, Jan. 28	6	5	177, July 6	Weſtmin.
Qu. Mary		1518	1553, June 6	5	4	172, Nov. 17	Weſtmin.
Qu. Eliz.		1533	1558, Nov. 17	44	4	128, March 24	Weſtmin.
The Two Kingdoms in the ſame Line.							
James	1	1566	1602, Mar. 24	22	0	105, March 27	Weſtmin.
Charles	1	1600	1625, Mar. 27	23	10	81, Januar. 30	Windſor
Charles	2	1630	1648, Jan. 30	36	0	45, Februar. 6	Weſtmin.
James	2	1633	1684, Feb. 6	4	0	41, Februa. 13	S. Germai.
Will. &		1650	1689, Feb. 13	13	1	28, March 8	Weſtmin.
Mary		1662		5	10	36, Decem. 28	Weſtmin
Qu. Anne		1665	1702, Mar. 8	12	5	16, Auguſt 1	Weſtmin
George	1	1660	1714, Aug. 1	12	10	3, June 11	Hanover.
George	2	1683	1727, June 11	Whom GOD grant long to Reign.			

You here may ſee a Race of Monarchs Great,
And in what Time each took the Royal Seat :
God ſet them up, the Subjects did them Crown,
The greateſt Rebel dares not pull 'em down :
If ſome were bad, who durſt them Tyrants call,
Since good, or bad, they 're God's Vicegerents all.

A TABLE ſhewing the Time of the Moon's coming to the South in Hours and Minutes, every Day for the firſt Six Months of this Year 1730.

Days	*January*		*February*		*March*		*April*		*May*		*June*	
	h.	m.	h.	m.	h.	m.	h.	m	h.	m	h.	m.
1	5M	42	7M	17	6M	14	8M	7	8M	30	9M	25
2	6	36	8	19	7	16	8	54	9	12	10	15
3	7	29	9	20	8	13	9	42	9	58	11	5
4	8	31	0	21	9	10	10	26	10	44	11	55
5	9	36	11	15	10	2	11	13	11	32	12	47
6	10	40	12	9	10	53	12	0	12	22	1A.	35
7	11	43	0A	56	11	39	0A.	48	1A.	12	2	23
8	12	38	1	43	12	25	1	35	2	3	3	3
9	1A.	35	2	29	1A.	10	2	26	2	54	3	50
10	2	24	3	15	2	1	3	18	3	44	4	31
11	3	11	4	2	2	47	4	10	4	30	5	19
12	4	3	4	49	3	35	5	59	5	12	5	57
13	4	55	5	40	4	28	5	47	5	56	6	41
14	5	32	6	30	5	19	6	37	6	39	7	31
15	6	8	7	20	6	9	7	17	7	23	8	25
16	6	58	8	10	6	59	8	1	8	8	9	24
17	7	47	8	58	7	48	8	47	8	56	10	30
18	8	37	9	47	8	36	9	31	9	50	11	35
19	9	27	10	32	9	29	10	19	10	50	12	40
20	10	17	11	19	10	6	11	13	11	53	0M	40
21	11	6	12	4	10	51	12	9	12	59	1	42
22	11	52	0M	4	11	37	0M	9	0M	59	2	35
23	12	38	0	50	12	25	1	8	2	4	3	28
24	0M	38	1	34	0M	25	2	11	3	6	4	16
25	1	21	2	26	1	15	3	17	4	3	5	2
26	2	6	3	18	2	14	4	19	4	54	5	47
27	2	51	4	15	3	20	5	16	5	43	6	33
28	3	36	5	12	4	18	6	11	6	27	7	19
29	4	27			5	19	7	0	7	10	8	6
30	5	18			6	17	7	46	7	55	8	57
31	6	16			7	14			8	41		

A TABLE ſhewing the Time of the Moon's coming to the South in Hours and Minutes, every Day for the laſt Six Months of this Year 1730.

Days	*July*		*Auguſt*		*Septem.*		*Octob.*		*Novemb.*		*Decem.*	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
1	9M	47	10M	59	11M	57	12M	18	1A	55	2A.	35
2	10	39	11	45	12	40	1A.	9	2	59	3	34
3	11	28	12	28	1A.	26	2	6	3	58	4	25
4	12	15	1A.	10	2	13	3	4	4	57	5	15
5	1A.	0	1	52	3	7	4	5	5	48	6	0
6	1	44	2	35	4	2	5	6	6	40	6	46
7	2	26	3	21	5	2	6	4	7	26	7	33
8	3	8	4	11	6	1	7	2	8	10	8	19
9	3	51	5	1	7	1	7	51	8	56	9	8
10	4	35	5	59	8	1	8	40	9	43	9	57
11	5	21	6	58	8	58	9	30	10	33	10	49
12	6	11	8	1	9	54	10	18	11	24	11	41
13	7	6	9	3	10	43	11	6	12	16	12	32
14	8	6	10	2	11	31	11	55	0M	16	0M	32
15	9	12	11	0	12	20	12	45	1	7	1	20
16	10	15	11	58	0M	20	0M	45	2	0	2	8
17	11	20	12	44	1	9	1	38	2	47	2	49
18	12	19	0M	44	1	59	2	31	3	36	3	20
19	0M	19	1	33	2	54	3	22	4	20	4	11
20	1	8	2	22	3	48	4	13	5	4	4	52
21	2	0	3	10	4	37	5	1	5	46	5	34
22	2	49	3	58	5	26	5	49	6	28	6	15
23	3	35	4	49	6	15	6	32	7	10	7	4
24	4	23	5	40	7	4	7	16	7	53	7	55
25	5	10	6	31	7	50	7	58	8	43	8	54
26	5	57	7	21	8	35	8	40	9	33	9	55
27	6	47	8	9	9	18	9	25	10	31	10	59
28	7	38	8	59	10	0	10	10	11	29	12	3
29	8	30	9	44	10	43	11	2	12	31	1A	1
30	9	23	10	29	11	27	11	54	1A.	35	1	59
31	10	11	11	13			12	59			2	52

To find the Time of High Water in moſt Parts of England, *&c.*

FIrſt ſeek the Moon's Southing in the foregoing Table for your Day, then you may conclude it High-Water at the *Iſle of Wight*, *Southampton*, *Quinborough* and *Portſmouth*, for there the South and North Moons make a High-Water: But when you deſire the Time of Full Sea in any of the following Coaſts in the enſuing Table, find the Name of the Place, and ſee how many hours and minutes be annex'd thereunto in the Column under *H. M.* which being added to the time of the Moon's coming to the South, gives the time of High-Water at the Place required.

A *Tide Table* with the Names of the Havens.	H.	M.
Rocheſter, *Malden*, *Aberdeen*, *Weſt-end of the Nore*	0	45
Graveſend, *Downs*, *Thanet*, *Romney*, *Ramkins*	1	30
Dundee, *St. Andrews*, *Lisbon*, *Bell-Iſle*	2	15
London, *Tinmouth*, *Hartle-pool*, *white Bay*, *Amſterdam*	3	00
Bridlington-Bay, *Berwick*, *Oſtend*, *Fluſhing*, *Bourdeaux*	3	45
Frith, *Leith*, *Dunbar*, *Narbon*, *Scarborough*, *Severn*, *Ballimore*, *Mounts-bay*, *Cork*, *Kingſale*	4	30
Newcaſtle, *Falmouth*, *Dartm.* *Humb.* *Torbay*, *Guernſey*	5	15
Lyn, *Antwerp*, *Plim.* *Hull*, *Weym.* S. *David's*, S. *Malo*	6	00
Briſtol, *Start-point*, *Lanion*, *Foulneſs*	6	45
Millford, *Bridgwater*, *Northcoaſt*, *Lands-end*, *Waterford*	7	30
Portland, *Peter-port*, *Hartflew*, *Dublin*	8	15
S. *Hellens*, *Man-Iſle*, *Pool*, *Needles*, *Orford*, N. & S. *Forel.*	9	00
Dover, *Yarmouth*, *Harwich*, *Callice-Road*, *Bullein*	10	30
Rye, *Winchelſea*, *Calſhot*	11	15

Example.

The 10th Day of *March* this Year, it is required t know the Time of High-Water at *London*: By the Table o the Moon's coming to the South, againſt *March* the 10th I find the Moon South at 2 ho. 1 min. in the aftern. the in the Tide-Table above, I find againſt *London*, 3 hours 0 min. which being added to 2 ho. 1 min. makes 5 ho. 1 m in the Afternoon, the Time of High-water at *London*, the ſaid 10th Day of *March*; the like of any other.

Note, The Latitude of the Moon and Winds may alter it an hour ſooner or later; and the Tide flows conſiderably more at the New and Full Moons, than at the Firſt and Laſt Quarters.

Directions

DIRECTIONS *for the ſubſequent* DIARY *or* ALMANACK.

IN the firſt Column to the Left hand, on the Left-hand Page, you have the Numerical Figures of the Days of the Month.

In the ſecond Column you have the Week-days, and the Dominical Letter.

In the third Column you have the Saints-days, and the Places of the Planets once a Month; as alſo the Moons Application to the Fixed Stars, by which the Aſteriſms and Conſtellations may be eaſily known to an ingenious Eye and Underſtanding.

In the fourth Column the Moon's Place in the Zodiack, every Day at Noon.

In the fifth Column the Riſing and Setting of the Moon, with Reſpect to her Latitude.

In the ſixth Column the Mutual Aſpects of the Planets, with the General State of the Weather.

In the firſt Column on the Right-hand Page you have the *Engliſh* Account.

In the ſecond Column you have the *Roman* Account, being now Eleven Days before ours.

In the third Column the *Roman* Week-days.

In the fourth Column the perfect *Roman* Kalendar, and Saints-days.

In the fifth Column you have a Treatiſe of the Clouds, their Altitudes, *&c.*

The ſixth, ſeventh, and eighth Columns, the utmoſt to the Right-hand, ſhew you the daily Riſing and Setting of the Sun.

On the top of the Left-hand Page is ſet the New and Full Moons, with the firſt and laſt Quarters.

On the top of the Right-hand Page is ſet the Riſing, Southing, and Setting of the Planets.

January hath xxxi Days.

☾ Laſt Quarter the 1ſt day, at 3 in the morning.
● New Moon the 7th day, at 7 at night.
☽ Firſt Quarter the 14th day, at 11 at night.
● Full Moon the 23d day, at 4 in the morning.
☾ Laſt Quarter the 30th day, at 1 in the afternoon.

1	a	New-Year's Day	libra 27	0 M	40	Moon's riſing
2	b	☽ pr. Lan. bor.	ſcor. 11	2	6	
3	c	☽ pr. Front. Scor.	ſcor. 25	3	33	
4	D	2 Sun. aft. Chriſt.	ſagit. 10	4	48	
5	e	☽ pr. Sin. M . ♐	ſagit. 24	6	5	
6	f	Epiphany	capr. 9	7	2	
7	g	☉ Eclipſed inviſ	capr. 25	New ●		—
8	a	♄ ♓ 7.	aqua. 9	5 A.	21	
9	b	Sol in Aquarius.	aqua. 24	6	48	
10	c	♃ ♌ 4 R.	piſces 8	8	16	
11	D	1 Sun. aft. Epip	piſces 22	9	35	Moon's ſetting.
12	e	♂ ♎ 17.	aries 5	10	55	
13	f	*Hilary*.	aries 18	12	3	
14	g	♀ ♑ 18.	taur. 0	0 M	13	
15	a	☿ ♒ 11.	taur. 12	1	28	
16	b	☊ ♒ 5.	taur. 24	2	41	
17	c	☽ prope Aldeba.	gem. 6	3	44	
18	D	2 Sund. aft. Epip.	gem. 18	4	46	
19	e	☽ pr. Luc. Ped. ♊	canc. 0	4	47	
20	f	☽ pr. Pollux.	canc. 12	6	17	
21	g	St. *Agnes*.	canc. 24	6	47	
22	a	☽ prope Aſellos	leo 6	7	18	
23	b	Term begins	leo 18	Full ●		—
24	c	☽ Eclipſed inviſ.	virgo 1	6 A.	27	
25	D	Septuageſima	virgo 14	7	45	Moon's riſing.
26	e	☽ pr. Vindemiat.	virgo 27	9	2	
27	f	☽ pr. Spic. Virg.	libra 10	10	23	
28	g	☽ pr. Au in V. ♍	libra 24	11	45	
29	a	☽ pr. Lanc. Auſt.	ſcor. 7	12	10	
30	b	K. Charles I. M	ſcor. 21	1 M	10	
31	c	☽ pr. Cor. Scorp	ſagit. 5	2	27	

Cold, raw, an
driſling Wea
her at the be
gining; fol
✱ ♄ ☿ lowe
with ſha
Froſts, bu
☌ ☉ ☿ ſoon
turns to miſt
☍ ♃ ☿ and
foggy Air, a
bout the New
☍ ☉ ♃ Moon
□ ♂ ♀ alſ
ſome high Wind
and Storms abo
the 13th and 14
days. Now ſom
light Froſts, wit
ſome pleaſant an
△ ♂ ☿ fai
Days, and for th
moſt part mild &
temperate, till a
bout Full Moon
then we may ex
Con. St. Pau
☍ ♃ ♀ 25 d
pect Storms o
cold Rain o
Snow, with ſom
ſharp Froſts at th
End of the Month

SAUNDER. January 1730

Saturn at the begin. ſets about 8 at night, at the end between 6 and 7. *Jupiter* at the begin. is South between 12 and 1 in the Morning, at the end about 11 at Night. *Mars* at the beginning riſes between 11 and 12 at Night, at the end between 10 and 11. *Venus* riſes about 7 in the Morning. *Mercury* i Combuſt

English Accoun.	Foreig. Accoun.	Rom. Kalendar	Rom. St. Days					
1	12	e	Satyrius	1	8	7	3	53
2	3	f	Hilarius	2		5		55
3	4	g	Felix	3		4		56
4	5	A	1 S. aft Ep.	4		3		57
5	16	b	Marcellus	5	8	1	3	59
6	17	c	Anthony	6	7	59	4	1
7	18	d	Priſca	7		58		2
8	19	e	Pontian	8		57		3
9	20	f	Fab.&Seb.	9		55		5
10	21	g	Agnes	10		54		6
11	22	A	Septuageſ.	11		52		8
12	23	b	Emerant	12		51		9
13	24	c	Timothy	13		50		10
14	25	d	Con.S.Pau	14		48		12
15	26	e	Polycarp	15	7	46	4	14
16	27	f	Chryſoſt.	6		45		15
17	28	g	Car. Mag.	17		43		17
18	29	A	Sexageſim	18		40		20
19	30	b	Adelgun	19		38		22
20	31	c	Syriacus	20		36		24
21	Feb.		Bridget	21		34		26
22	2	e	Pur. Vi. M.	22	7	33	4	27
23	3	f	Blaſe	23		31		29
24	4	g	Veronica	24		29		31
25	5	A	Quinquag.	25		27		33
26	6	b	Dorothy	26		2		35
27	7	c	Shrove-T.	27		23		37
28	8	d	Aſh-Wed.	28		21		39
29	9	e	Apo. V. M.	29		19		41
30	10	f	Scholaſt.	30	7	17	4	43
31	11	g	Euphroſin.	31		16		44

IN my laſt I gave ſome Account of thoſe *Meteors* which are bred of a hot and dry Exhalation; I come now to theſe which are bred of a Vapor in the middle and loweſt Regions of the Air.

In the middle Region are ingendered Clouds, Rain, Snow, and Hail. First of the Clouds. A Cloud is ingendred when Vapors being raiſed aloft, either by Heat, which they have received from the *Sun*, or other heating Cauſes, or by hot Exhalations mixt with them, are aſſembled in the middle Region of the Air, ſo that they cannot be penetrated by the Sight For a Cloud is nothing elſe but a Vapour raiſed up in the middle Region of the Air, &

there

February hath xxviii Days.

● New Moon the 6th day, at 6 in the morning.
☽ Firſt Quarter the 13th day, at 7 at night.
● Full Moon the 21ſt day, at 8 at night.
☾ Laſt Quarter the 28th day, at 9 at night.

Mont. Da.	Week Da.	Feſtival & Saints days, with the ☾ s applicat. to the noted fixed ſtars	The ☽ s place in the zodiack at N.	The ☾ s riſing fro. the full to the change, & ſetting fr. the cha. to the fu.		The mutual Aſp of the Planets, w the Various Con tution of Air, a change of Wea
1	D	**Sexageſſima**	ſagit. 19	3 M 47	Moon's riſing.	△ ☉ ♂ Sha
2	e	**Purif. V. Mary**	capr. 4	4 47		and froſ
3	f	☽ pr. ult. in Ca. ♐	capr. 18	5 27		Weather
4	g	☽ pr. Luc. Ma. ♒	aquar. 3	6 8		the begiin
5	a	☽ pr. Sin. Hum ♒	aquar. 18	6 31		followed wi
6	b	☽ pr. Dex. Hu. ♒	piſces 2	New ●		Winds, an
7	c	☽ pr. Marchab.	piſces 16	7 A 6		Storms of co
8	D	**Quinquageſima**	aries 0	8 25		Rain or Sno
9	e	Sol in Piſces	aries 13	9 45		about the Ne
10	f	Shrove Tueſday	aries 26	11 4	Moon's ſetting.	Moon. No
11	g	Aſh Wedneſday	taur. 8	12 24		ſome ſhar
12	a	Term ends	taur. 21	0 M 24		△ ♂ ♀ Froſ
13	b	☽ pr. Aldebaran	gem. 2	1 27		for a Day or tw
14	c	*Valentine.*	gem. 14	2 30		then ſome miſ
15	D	**Quadrageſſima**	gem. 26	3 33		and foggy We
16	e	♄ ♓ 12.	canc. 8	4 11		ther, bringin
17	f	♃ ♌ 0. ℞.	canc. 20	4 50		more plenty
18	g	Ember Week	leo 2	5 10		Snow or co
19	a	♂ ♎ 24. ℞.	leo 14	5 31		Rain, and prob
20	b	♀ ♓ 4.	leo 27	5 51		☌ ☾ ♄ bl
21	c	☿ ♓ 16. R.	virgo 10	Full ●		may continu
22	D	**2 Sund. in Lent.**	virgo 23	6 A 51	Moon's riſing.	dropping, alſ
23	e	☊ ♒ 3.	libra 7	8 13		♉ ☉ ♀ wind
24	f	St. Matthias	libra 20	9 35		and ſtormy; b
25	g	☽ Pr. Lanc. Au.	ſcorp. 4	11 3		☌ ♄ ☿ after t
26	a	☽ pr. Lanc. Bor.	ſcorp. 18	12 30		Full Moon we m
27	b	☽ Pr. Cord. Scorp	ſagit. 2	0 M 30		☌ ♀ ☿ expe
28	c	☽ pr. Dex. Hu. O.	ſagit. 16	1 38		☌ ♄ ♀ ſom
						Froſts, and mo
						pleaſ. than of la

Engl. Account.
Por. Account.
Rom. Kalendar.
Rom. St. days.

Saturn is hid under the Sun Beams, towards the end is Combuſt. *Jupiter* at the beginning is South at 10 at Night, at the end between 8 and 9. *Mars* at the beginning riſes between 10 and 11 at Night, at the end about 9. *Venus* and *Mercury* lye hid under the Sun Beams: *Mercury* towards the end is Combuſt

			Feriæ Sta. & Concep.	Of *the* Clouds, *their* Altitudes, *&c.*	M.D.		⊙ riſ.		⊙ ſet.
1	12	A	Quadrage.	there compacted;	1	7	14	4	46
2	13	b	Euſtatius	which appears hereby	2		12		48
3	14	c	Valentine	that in the lower Re	3		10		50
4	15	d	Fauſtinus	gion of the Air, when	4		8		52
5	16	e	Julianus	Vapors and Exhalati-	5		6		54
6	17	f	Conſtance	ons are raiſed out of	6		4		56
7	18	g	Concordia	things which boil or	7		2	4	58
8	19	A	Reminiſc.	burn, they repreſent	8	7	0	5	0
9	20	b	Mildred	Clouds; and becauſe	9	6	53	5	2
10	21	c	Eſaias	they that walking be-	10		56		4
11	22	d	Cath. Pet	neath ſee Clouds up-	11		54		6
12	23	e	Serenus	on Mountains, when	12		52		8
13	24	f	St. Matthi.	they aſcend to the top	13		50		10
14	25	g	Victorinus	of the ſaid Mountains,	14		48		12
15	26	A	Oculi	they walk through the	15	6	46	5	14
16	27	b	Auguſtin.	Clouds as through	16		44		16
17	28	c	Oſwald E.	Miſts; and becauſe as	17		42		18
18	Mar.		David B.	ſoon as the ſaid Exha-	18		40		20
19	2	e	Ceddus B.	lations are condenſed,	19		38		22
20	3	f	Mauritius	they remain no longer	20		36		24
21	4	g	Adrianus	Clouds, but turn into	21		34		26
22	5	A	Lætare	Rain. Touching the	22	6	32	5	28
23	6	b	Victorius	Height of the Clouds,	23		30		30
24	7	c	Perpetua	Authors indeed differ	24		28		32
25	8	d	Cyprianus	very much and their	25		26		34
26	9	e	Prud. M.	Heights are very dif-	26		24		36
27	10	f	Agapite	ferent, at different	27		22		38
28	11	g	40 Mart.	Times and Seaſons,	28	6	20	5	40

and

March hath xxxi Days.

● New Moon the 7th day, at 7 at night.
☽ Firſt Quarter the 15th day, at 4 in the afternoo
● Full Moon the 23d day, at 8 in the morning.
☾ Laſt Quarter the 30th day, at 3 in the morning.

1	D	**Q. CAROLINE** bo. 1682.			2M	48	Moon's riſing.
2	e	*Chad*	capr.	14	3	31	
3	f	☽ pr. Cor. Bor. ♑	capr.	28	4	15	
4	g	☽ pr. Caud. ♑	aqua.	12	4	34	
5	a	☽ pr. Brac. D. ♒	aqua.	28	4	54	
6	b	♄ ♓ 14.	piſces	0	5	15	
7	c	♃ ♋ 29, St. ad D.	piſces	24	New	●	
8	D	**Midlent Sunday**	aries	8	7A.	26	
9	e	♂ ≏ 22. ℞.	aries	21	8	42	
10	f	**Sol in Aries.**	taur.	4	10	2	
11	g	♀ ♓ 28	taur.	16	11	16	
12	a	☿ ♓ 7. D.	taur.	28	12	30	
13	b	☊ ♒ 3.	gem.	10	0M	30	Moon's ſetting.
14	c	☽ pr. Propus.	gem.	22	1	18	
15	D	**5 Sund. in Lent**	canc.	4	2	5	
16	e	☽ Pr Caſt & Pol	canc.	16	2	52	
17	f	☽ Prope Aſſellos	canc.	28	3	17	
18	g	☽ pr. Au. in Ca. ♌	leo	10	3	41	
19	a	☽ pr. Cor. Leon.	leo	22	4	5	
20	b	☽ pr. Caud. Leon.	virgo	5	4	18	
21	c	*Benedictus*	virgo	18	4	32	
22	D	**Palm Sunday**	libra	2	4	4	
23	e	☽ pr. Spic. Virg.	libra	15	Full	●	
24	f	☽ pr. Lanc. Auſt	ſcorp.	0	8A	50	Moon's riſing.
25	g	**Annun. B. V. M.**	ſcorp.	14	10	21	
26	a	☽ pr Cor. Scorp.	ſcorp.	28	11	42	
27	b	**Good Friday**	ſagit.	13	12	4	
28	c	☽ Pr. Sin. M. ♐	ſagit.	27	1M	4	
29	D	**Eaſter-Day.**	capr.	11	1	42	
30	e	☽ Pr. Cor. Bo. ♑	capr.	25	2	18	
31	f	☽ pr. Luc M. ♒	aqua.	9	2	53	

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Saturn emergeth, and at the end may be ſeen riſing a little before the *Sun*. *Jupiter* at the beginning is South between 8 and 9 at Night, and ſets between 4 and 5 in the morn. at the end he ſets about 3 in the morn. *Mars* at the beginning riſes between 8 and 9 at Night, at the end about Sun-ſet *Venus* all this Month is Combuſt. *Mer.* Emergeth

For. Account.	Rom. Kalendar.	Rom. St. days.						
12	A	Judica	and in different Places	1	6	18	5	42
13	b	Severinus	of the Earth, and in-	2		16		44
14	c	Eutychus	deed in the ſame Place	3		13		47
15	d	Longinus	and at the ſame Time,	4		11		49
16	e	Hilarius	ſome being abundant-	5		9		51
17	f		ly higher than others,	6		0		54
18	g	Gertrude	tho' not near ſo high	7		4		56
19	A	Palm Sun.	as they are accounted	8	6	2	5	58
20	b	Joſephus	by ſome Authors:	9	6	0	6	0
21	c	Cuthbert	*Sennertus*, in his *Phy-*	10	5	58	6	2
22	d	Bened. Ab.	*ſicks*, or *Natural Philo-*	11		56		4
23	e	Victorius	*ſophy*, tells us, That	12		54		6
24	f	Aphrodit	ſome conceive the	13		52		8
25	g	An. B.V.M.	Clouds not to be a-	14		50		10
26	A	Paſcha.	bove 3 Miles diſtant	15		48		12
27	b	Nector	from us, and that	16	5	46	6	14
28	c	Fremon.	ſome of them are not	17		44		16
29	d	Fortuna.	above half a Mile	18		42		18
30	e	Guido	high; others write	19		40		20
31	f	Balbina	that no Cloud is above	20		38		22
Apr.		Theodore	9 Miles diſtant from	21		36		24
2	A	Quaſimod	the Earth; but *Vitellio*	22		34		25
3	b	Ulpianus	is of Opinion that the	23		32		28
4	c	Ambroſe	Vapors aſcend 52000	24	5	30	6	30
5	d	Vincent	Paces, or 13 *German*	25		28		32
6	e	Sixtus Pap.	Miles. *Cardan*, in his	26		26		34
7	f	Cæleſtinus	Book, *De Subtil.* lib. 4	27		24		36
8	g	Dionyſius	p. 205, (as quoted by	28		22		38
9	A	Miſericor.	*Sennertus*) reprehends	29		19		41
10	b	Ezekiel	*Vitellio*, and avers, that	30	5	17	6	43
11	c	Leo Pap.	the higheſt that Va	31		15		45

pours

April hath xxx Days.

● New Moon the 6th day, at 9 in the morning.
☽ First Quarter the 14th day, at 10 in the morning.
● Full Moon the 21st day, at 6 in the afternoon.
☾ Last Quarter the 28th day, at 10 in morning.

1	g	☽ pr. Sin.Hu ♒	aquar.	2[illegible]	3 M	1[illegible]	Moon rising.
2	a	☽ pr. A. D.M. ♒	piſces	6	3	26	
3	b	☽ pr. Marchab.	piſces	20	3	44	
4	c	☽ pr. Alchenib.	aries	3	3	54	
5	D	Low Sunday	aries	16	4	9	
6	e	☽ pr.pri. ✱ Ari	aries	29	New	●	
7	f	☽ pr. Caud. Ari.	taur.	12	9 A.	8	
8	g	☽ prope Pleiades	taur.	24	10	19	
9	a	Sol in Taurus	gem.	6	11	30	
10	b	☽ pr. Althaiot	gem.	18	12	21	
11	c	☽ pr. Luc.Ped. ♊	canc.	0	0 M	21	Moon's ſetting.
12	D	2 Sun. p. Eaſter	canc.	12	0	56	
13	e	☽ pr.L. in Ca. ♋	canc	24	1	28	
14	f	☽ prope Aſſellos	leo	6	2	0	
15	g	Term begins	leo	18	2	15	
16	a	☽ pr. Cord. Leon.	virgo	0	2	31	
17	b	☽ pr. Caud. Leon.	virgo	13	2	47	
18	c	☽ pr. Vindemiat.	virgo	26	2	59	
19	D	3 Sun. p. Eaſter	libra	10	3	12	
20	e	♄ ♓ 19.	libra	24	3	25	
21	f	♃ ♌ 1. D.	ſcorp.	8	Full	●	
22	g	♂ ♎ 7. R.	ſcorp.	23	9 A.	18	
23	a	St. George	ſagit.	8	10	37	Moon's riſing.
24	b	♀ ♉ 22.	ſagit.	23	11	57	
25	c	St. Mark	capr.	7	12	43	
26	D	4 Sun. p. Eaſter	capr.	22	0 M	43	
27	e	☿ ♉ 13	aquar.	6	1	1	
28	f	☊ ♒ 0.	aquar.	20	1	24	
29	g	☽ pr. Dex Man.	piſces	3	1	40	
30	a	☽ prope March.	piſces	17	1	56	

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Saturn at the beginning riſes between 4 and 5 in the morning, at the end about 3. *Jupiter* at the beginning ſets between 2 and 3 in the morning, at the end about 1. *Mars* at the beginning is South between 11 and 12 at Night, at the end between 9 and 10 *Venus* is Combuſt all this Month. *Mercury* riſes a little before the *Sun*.

Account	For. Account.	Rom. Kalendar.	Rom. St. days.					
1	12	d	Julius	1	5	13	6	47
2	13	e	Juſtinus	2		11		49
3	14	f	Tiburtius	3		9		51
4	15	g	Perpetua	4		7		53
5	16	A	Jubilate	5		5		55
6	17	b	Anicetus	6		3		57
7	18	c	Elutherius	7	5	1	6	59
8	19	d	Timon	8	5	0	7	0
9	20	e	Sulpitius	9	4	58	7	2
0	21	f	Quintin	10		56		4
1	22	g	Emanuel	11		54		6
2	23	A	Cantate	12		52		8
3	24	b	Albertus	13		50		10
4	25	c	St. Mark	14		48		12
5	26	d	Clet. P.M	15	4	46	7	14
6	27	e	Anaſtatius	16		44		16
7	28	f	Vitalis	17		42		18
8	29	g	Pet. D.M.	18		41		19
9	30	A	Rogate	19		39		21
0	May		St. Ph. & Ja	20		38		22
1	2	c	Athanaſiu	21		36		24
2	3	d	Inv. Cruc.	22	4	34	7	26
3	4	e	Aſcen. Do.	23		32		28
4	5	f	Chriſtoph.	24		30		30
5	6	g	John P. L.	25		28		32
6	7		Exaudi	26		26		34
7	8	b	Staniſlaus	27		24		36
8	9	c	Greg. Naz	28		23		37
9	10	d	Gordi, &c.	29		21		39
0	11	e	Mamert.	30	4	19	7	41

pours amount is 77,200 Paces, or 193 *German* Miles; but this will not be allowed by thoſe that endeavour to demonſtrate, that the Atmoſphere is not near the tenth Part of that Height. Our late Countryman, Mr *John Wing*, in his Six Years *Ephemerides*, offers a Demonſtration of the Height of the Atmoſphere, whereh makes it 43 Miles high. I have long ſince met with an Author, which I do not now remember, that made the Altitude thereof about 45 Miles; and *Kepler* in his *Epitoma Aſtronomiæ Copernicanæ*, p. 74 and 75 (ſuppoſing it not always of the ſame Height) hath made the Height of the Atmoſphere from 8 1 half *German* Miles to 11 1 half, which I take to be of our Miles, from about forty to fifty-four, or ſome little more, above which Height we cannot reaſonably allow the Vapours to aſcend, and therefore muſt diſſent from *Cardan*: However, the Height of the Clouds is not always the ſame, but various, according to the Variety of Matter, Places and Times, and we may often ſee

at

May hath xxxi Days.

● New Moon the 5th day, at 11 at night.
☽ Firſt Quarter the 14th day, at 2 in the morning.
● Full Moon the 21ſt day, at 2 in the morning.
☾ Laſt Quarter the 27th day, at 6 in the afternoon.

1	b	St. Phil. & Jacob	aries	0	2M	9	M. riſing.
2	c	☽ pr Vent. Cete	aries	13	2	23	
3	D	Rogat. Sunday	aries	25	2	41	
4	e	☽ pr. Manker	taur.	8	3	0	
5	f	☽ Pr. Pleiades.	taur.	20	New ●		
6	g	☽ prope Aldeb.	gem.	3	9A	19	
7	a	Aſcenſ. Domin.	gem.	15	9	59	
8	b	☽ pr. Luc. Ped. ♊	gem.	27	10	40	
9	c	☽ prope Caſtor.	canc.	9	11	20	
10	D	6 Sun. aft. Eaſt	canc.	20	2	3	Moon's ſetting.
11	e	Sol in Gemini	leo	2	0M	3	
12	f	☽ pa. Caput Leon	leo	14	0	21	
13	g	☽ pr. Cord. Leon.	leo	26	0	39	
14	a	☽ pr. Caud. Leon.	virgo	9	0	50	
15	b	☽ pr. Al. Auſt. ♍	virgo	21	1	3	
16	c	☽ prope Vindem.	libra	5	1	16	
17	D	Whit. Sunday.	libra	18	1	37	
18	e	☽ pr. Lanc Auſt	ſcorp.	2	1	56	
19	f	☽ pr. Lanc Borea	ſcorp.	1[illegible]	2	16	
20	g	Ember Week	ſagit	1	2	35	
21	a	♄ ♓ 21.	ſagit.	16	Full ●		
22	b	♃ ♌ 5.	capr.	2	10A.	30	
23	c	♂ ♉ 8. D.	capr.	16	10	54	
24	D	Trinity Sund.	aqua.	1	11	17	Moon's riſing.
25	e	♀ ♋ 0.	aqua.	16	11	42	
26	f	☿ ♋ 8.	piſces	0	12	5	
27	g	♂ ♑ 29.	piſces	14	0M	5	
28	a	☽ pr. Algenib.	piſces	26	0	18	
29	b	K. C. II. Nat. & R.	aries	10	0	28	
30	c	{Term beg. 29d.}	aries	23	0	43	
31		1 Sun. aft. Trin	taur.	5	0	57	

♂ ☉ ☿ Some
⚹ ♃ ♀ cold
harſh Winds
at the begin-
△ ♂ ♀ ning;
⚹ ♃ ☿ fol-
lowed with
△ ♂ ☿ warm
Showers, or
driſling Rain;
(Term ends)
(♂ ♀ ☿ 11d)
alſo ſome hot
⚹ ☉ ♃ □ ♄ ☿
Days about
this time, but
△ ☉ ♂ not
□ ♄ ♀ with-
out Showers, or
driſling Rain and
probably ſome
Thunder about
the 19th or 20th
days, then follow-
th ſome calm &
hot Weather, with
Showers about
□ ♂ ☿ the 25
or 26th days, o-
ther whiles ſome
cool Gales of
Wind, and fre-
quent Showers a
the end.

♄ at the beginning riſes between 2 and 3 in the morn. at the end about 1. ♃ at the beginning ſets between 12 and 1 in the morn. at the end between 11 and 12 at night. ♂ at the beginning ſets between 2 and 3 in the morning, at the end between 1 and 2, ♀ lies hid all this Month. ☿ at the beginning is combuſt.

Account.	Rom. Kalend.		Rom. Sts. days.						
	12	f	Pancratius	at the ſame time and in the	1	4	18	7	42
	13	g	Servatius	ſame place one Cloud to be	2		17		43
	14	A	Pentecoſt	much higher from the Earth	3		15		45
	15	b	Sophia	than another; and as *Sen-*	4		14		46
	16	c	Peregrinus	*nertus* ſaith, Experience	5		12		48
	17	d	Torpet	ſheweth that Clouds are not	6		11		49
	18	e	Venant	ſo high as ſome imagine,	7		9		51
	19	f	Potentia	for the Tops of ſome Moun-	8		7		53
	20	g	Dunſtan	tains are above the Clouds.	9		6		54
	21	A	Trin.Sund.	The Mountains *Olympus* and	10		4		56
	22	b	Hoſpitius	*Athos* are ſo high, that Aſhes	11		3		57
	23	c	Deſiderius	left upon the Tops of them	12	4	1	7	59
	24	d	Eaſther	all the Year, had neither	13	4	0	8	0
	25	e	Corp.Chri.	been blown away with the	14	3	59	8	1
	26	f	Quadratu	Wind, nor waſhed away	15		58		2
	27	g	Beda Ven.	with Rain. And ſuch as	16		56		4
	28	A	1 Su.pTrin	have ſtood on the Top of	17		55		5
	29	b	Maximin.	*Veſuvius* have obſerv'd that	18		54		6
	30	c	Wigand.	ſome Clouds were juſt as	19		52		8
	31	d	Petronel	high as the Mountain, and	20	3	51	8	9
	June.		Pamphil.	ſome much lower. To which	21		50		10
	2	f	Marcellus	agrees that which *Zabarella*	22		49		11
	3	g	Eraſmus	writes in his 8th Chapter	23		48		12
	4	A	2Su.pTrin	*Regionib. Aeris*, I went, ſaith	24		47		13
	5	b	Boniface	he, to the Top of *Venus*	25		46		14
	6	c	Artemid.	Mountain, which is the	26		46	8	14
	7	d	Paul B.M	higheſt in the Territory of	27		45		15
	8	e	Torpetus	*Padua*, and there I found	28		45		15
	9	f	Barnim.	the Air clear all Day long;	29		44		16
	10	g	Getulius	but beneath, about the mid-	30	3	44	8	16
	11	A	St. Barnab.	B dle	31		43		17

June hath XXX Days.

● New moon the 4th day, at 2 in the Afternoon.
☽ First Quarter the 12th day, at 2 in the Afternoon.
● Full moon the 19th day, at 9 in the morning.
☾ Last Quarter the 26th day, at 3 in the morning.

1	e	pr.Caud. Ariet	taur.	17	1 M 24		□ ☉ ♄. Hot,c
2	f	☽ prope Pleiades	taur.	29	1 49		□ ♂ ♀. and
3	g	☽ pr. Alhaiot	gem.	11	2 12		Weather at th
4	a	☽ prope Præſepis	gem.	23	New ●		beginning, but
5	b	☽ pr. luc. ped. ♊	canc.	5	9 A 32	Moon's ſetting.	about the 5th
6	c	☽ prope Pollux	canc.	17	9 46		ſhowery, and
7	d	2 Sun. aft. Trin.	canc.	29	10 5		probably ſome
8	e	☽ pr. Cap. Leon.	leo	11	10 21		△ ♄ ☿. Thund
9	f	☽ pr.Cord.Leon.	leo	23	10 38		then follows h
10	g	Sol in Cancero.	virgo	5	10 55		& ſultry Weath
11	a	K.Geo.II.Inaug.	virgo	18	11 11		St. Barnabas
12	b	☽ pr.Vindemiat.	libra	0	11 28		(△ ♄ ♀. 11 d
13	c	☽ p . Spica Virg.	libra	13	11 44		☌ ♀ ☿. with n
14	d	3 Sun. aft. Trin.	libra	27	12 0		and then ſome
15	e	K.Geo.II. Procl.	ſcorp.	11	0 M 0		driſling Rain
16	f	☽ pr.bor.front.♏	ſcorp.	25	0 41		ſhowers ; abou
17	g	Term ends	ſagit.	10	1 20		the Full-moon
18	a	♄ ♓ 22 St.ad ℞	ſagit.	25	1 59		ſome cooling
19	b	♃ ♌ 10.	capri.	10	Full ●		Gales of Wind,
20	c	♂ ♎ 17.	capri.	25	9 A 30	Moon's riſing.	Showers there-
21	d	4 Sun. aft. Trin.	aquar.	10	9 45		with, and con
22	e	♀ ♌ 4.	aquar.	25	9 59		nues ſhowery
23	f	☿ ♋ ℞	piſces	9	10 14		for ſome days.
24	g	St. John Baptiſt	piſces	23	10 29		△ ♄ ☿. Now
25	a	☋ ♑ 27.	aries	6	10 45		and dry for a f
26	b	☽ pr.pri.✱ ariet	aries	19	11 11		days, followed
27	c	☽ prope Manker	taur.	2	11 37		□ ♂ ☿. with
28	d	5 Sun. aft. Trin.	taur.	14	12 1		☌ ♄ ♀. ſhow
29	e	St. Peter & Paul	taur.	26	0 M 1		☌ ☉ ☿ & driſli
30	f	☽ pr Aldebaran	gemini	8	0 28		weather at the

♄ at beginning riſes between 12 and 1 in the morn. at the end about 11 at night. ♃ at beginning ſets between 10 and 11 at night, at the end between 9 and 10. ♂ at beginning ſets between 12 and 1 in morn. at the end between 11 and 12 at night. ♀ emergeth, ſetting after ☉. ☿ at beginning is emerged occid.

For. Account.	Rom. Kalend.	Rom. Sts. days.						
12	b	Baſiliſtes	dle of the Mountains, I ſaw	1	3	43	8	17
13	c	Cyrilius	the Clouds, which hinder'd	2		43		17
14	d	Valerius	me from ſeeing the Vallies;	3		43		17
15	e	Vitus, &c.	and in the Evening being	4		42		18
16	f	Rulandus	come down from the ſaid	5		42		18
17	g	Botolph	Mountain, I found there	6		42		18
18	A	4 Su. p. Tri.	had been a great Rain that	7		42		18
19	b	Gervaſe	day below, whereas it rain'd	8		41		19
20	c	Regina	not at all on the Mountain's	9		41		19
21	d	Warburga	top. Agreeable to this is	10	3	41	8	19
22	e	St. Alban	what is related in *Theſaurus*	11		41		19
23	f	Baſilius	*Geographicus* of *David Fræ-*	12		41		19
24	g	S. Joh. Bap.	*lichius*, an *Hungarian*, when	13		41		19
25	A	5 Su. p. Tri.	he viſited the top of one of	14		42		18
26	b	Jeremias	the higheſt Mountains in	15		42		18
27	c	Sept. Dor.	*Hungary*, call'd *Schnee Ge-*	16		42		18
28	d	Leo Pap.	*burg*, one of the Mountains	17		43		17
29	e	Pet. & Paul	of *Krapak*: When he had	18		43		17
30	f	Lucina	look'd from the Top of the	19		44		16
July.	g	Tr. Sirith	firſt ſteep Rock to the Val-	20	3	44	8	16
2	A	6 Su. p. Tr.	lies, which he knew were	21		45		15
3	b	Cornelius	planted with huge Trees,	22		45		15
4	c	Ulricus	he could ſee nothing but a	23		46		14
5	d	Anſelm B.	dark and deep Air, like the	24		46		14
6	e	Tranquil.	blue Sky in the Firmament,	25		47		13
7	f	*Tho. Becket*	ſo that it ſeem'd to him,	26		48		12
8	g	Grimbald	that if he ſhould have fal-	27		49		11
9	A	7 Su. p. Tr.	len from the Rock, he ſhould	28		50		10
10	b	7 Fratres	not have fallen towards the	29		51		9
11	c	Benedict.	Earth, but into Heaven.	30	3	52	8	8

July hath XXXI Days.

● New Moon the 4th day, at 5 in the morning.
☽ Firſt Quarter the 12th day, at 1 in the morning.
○ Full Moon the 18th day, at 4 in the Afternoon.
☾ Laſt Quarter the 25th day, at 3 in the Afternoon.

1	g	☽ prope Propus	gem.	20	0M	53		Hot and dry
2	a	☽ pr.luc.ped. ♊	canc.	2	1	51		the beginning,
3	b	☉ eclipſ'd inviſ.	canc.	14	2	48		△ ☉ ♄ but ab
4	c	☽ prope Aſſellos	canc.	26	New	●		the New-moon
5	D	6 Sund. aft. Trin	leo	8	8A	39	Moon's ſetting.	□ ☉ ♂ ſome
6	e	☽ pr.cord.Leon.	leo	20	8	51		Rain is expecte
7	f	*Thomas à Becket*	virgo	2	9	5		after that an
8	g	☽ pr.caud.Leon	virgo	14	9	17		Increaſe of Hea
9	a	☽ pr.Vindemiat	virgo	27	9	29		and may proba-
10	b	♄ ♓ 21 ℞.	libra	10	9	41		✱ ♂ ♀ bly co
11	c	♃ ♌ 15.	libra	22	10	14		tinue hot and
12	D	7 Sund. aft. Trin	ſcorp	6	10	48		dry (except fo
13	e	Sol in Leone.	ſcorp.	20	11	20		gentle Showers
14	f	♂ ♎ 28.	ſagit.	4	11	54		about the 14th
15	g	St. Swithin.	ſagit.	18	12	31		15th days) till
16	a	☿ ♍ 3.	capr.	4	0M	31		after the Full
17	b	♀ ♋ 16 D.	capr.	18	1	53		moon, when w
18	c	☽ eclipſ'd inviſ	aquar.	5	Full	●		may expect bri
19	D	8 Sund. aft. Trin	aqua.	19	8A	11	Moon's riſing.	Winds, bringin
20	e	☊ ♑ 26.	piſces	3	8	26		Showers, and
21	f	☽ pro. Marchab	piſces	18	8	41		plenty thereof;
22	g	Mary Magdalen.	aries	2	8	56		△ ♄ ♀ and i
23	a	☽ pr. Vent. Cet	aries	15	9	10		very likely to
24	b	☽ pr.pri.✱ariet	aries	28	9	25		continue ſhow-
25	c	St. James	taurus	11	9	42		ery, with ſome
26	D	9 Sund. aft. Trin.	taurus	23	10	24		hot days; othe
27	e	☽ pr. Aldebaran	gemini	5	11	6		whiles ſome
28	f	☽ prope Cornu ♉	gem.	17	11	40		miſty morning
29	g	☽ pr.luc. ped. ♊	gem.	29	12	30		and frequent
30	a	☽ prope Caſtor	canc.	11	0M	30		☍ ♄ ♀ droppi
31	b	☽ prope Pollux	canc.	23	1	42		to the end.

SAUNDER. July 1730.

♄ at beginning riſes between 10 *and* 11 *at night, at the end about* 9, *and is then ſouth between* 2 *and* 3 *in the morning.* ♃ *is going to Combuſtion, and at the end is combuſt.* ♂ *at the beginning ſets about* 11 *at night, at the end between* 9 *and* 10. ♀ *ſets about an Hour after the Sun* ☿ *is combuſt.*

For. Account.	Rom. Kalend.		Rom.Sts. days.						
	12	d	Nab, &c.	As he went up the third	1	3	53	8	7
	13	e	Henricus	Mountain he thought him-	2		54		6
	14	f	Bonavent.	ſelf environ'd with very	3		55		5
	15	g	S. Swithin	thick Clouds and Miſts;	4		56		4
	16	A	8 Sun.p.Tr	but when he had gone on	5		58		2
	17	b	Hilarius	for ſome Hours, and was	6	3	59	8	1
	18	c	Maternus	near the top of all, he	7	4	0	8	0
	19	d	Ruffinus	look'd down to the place	8		1	7	59
	20	e	Margaret	where thoſe Clouds had	9		3		57
	21	f	Praxeda	beſet him, and ſaw a great	10		4		56
	22	g	M. Magd.	many white Clouds com-	11		6		54
	23	A	9 Sun.p.Tr	pacted, moving to and fro,	12		7		53
	24	b	Chriſtiana	and had a free Proſpect	13		8		52
	25	c	St. James	(thro' the Interſpaces and	14		9		50
	26	d	Anna	Diſtances that were be-	15	4	11	7	49
	27	e	Sept. Dor.	tween them) of the Plains	16		12		48
	28	f	Panthol.	below. Some of thoſe	17		14		46
	29	g	Felix	Clouds were higher than	18		16		44
	30	A	10 S.p.Tr.	other, and many of them	19		17		43
	31	b	Germanus	ſeem'd to be equally diſtant	20		18		42
	Aug.		Lammas	from the Earth. From this	21		20		40
	2	d	Moſes	he inferr'd, Firſt, that he	22	4	21	7	39
	3	e	Dominic.	paſſed the beginning of the	23		23		37
	4	f	Ariſtarch.	middle Region of the Air.	24		25		35
	5	g	Feſt Nivia	Secondly, That the diſtance	25		27		33
	6	A	11 S.p.Tr.	of the Clouds from the	26		29		31
	7	b	Romanus	Earth is no always the	27		31		29
	8	c	Theodoſ.	ſame, but leſſer, or more,	28		33		27
	9	d	Syriacus	according to the nature of	29		35		25
	10	e	Laurence	the Vapor. Thirdly, That	30	4	36	7	24
	11	f	Titus	the	31		37		23

Auguſt hath XXXI Days.

● New moon the 2d day, at 8 at Night.
☽ Firſt Quarter the 10th day, at 9 in the morning.
● Full moon the 16th day, at midnight.
☾ Laſt Quarter the 24th day, at 8 in the morning.

1	c	Lammas-day	leo	5	2M	53	☌ ☉ ♃ Drifli
2	d	10 Sun. aft. Trin.	leo	17	New	●	Rain, and ofte
3	e	☽ pr. Cord. Leon.	leo	29	7A	18	□ ♂ ☿ Showe
4	f	☽ pr. Caud. Leon.	virgo	11	7	31	at the beginning
5	g	☽ pr. pri. ſin. al. ♍	virgo	24	7	45	then ſome hot
6	a	☽ pr. Vindemiat.	libra	6	7	58	days are expect-
7	b	☽ pr. Spica Virg.	libra	19	8	11	ed, but the 7
8	c	♄ ♓ 20 ℞.	ſcorp.	2	8	29	☌ ♃ ☿ or 8th da
9	d	11 Sun. aft. Trin.	ſcorp.	16	8	55	produce Shower
10	e	St. Laurence	ſagit.	0	9	32	and continues
11	f	♃ ♌ 22.	ſagit.	14	10	22	ſhowery, alſo ſo
12	g	Sol in Virgine	ſagit.	28	11	31	miſty and driſli
13	a	♂ ♏ 16.	capr.	12	12	55	Weather about
14	b	♀ ♎ 8.	capr.	27	0M	55	☌ ☉ ☿ the 14
15	c	☿ ♍ 4.	aqua.	12	2	30	or 15th days. A
16	d	12 Sun. aft. Trin.	aqua.	27	Full	●	ter the Full-moo
17	e	☊ ♑ 24.	piſces	11	6A	44	ſome briſk Win
18	f	☽ prope Algenib	piſces	26	7	2	△ ♄ ♂ clearin
19	g	☽ pro. Vent. Ceti	aries	10	7	20	the Skies, & abo
20	a	☽ pr. pri. ∗ ariet.	aries	23	7	39	the 21th or 22
21	b	☽ prope Manker	taur.	6	7	57	days we may
22	c	☽ prope Pleiades	taur.	19	8	16	expect high
23	d	13 Sun. aft. Trin.	gem.	2	9	5	☍ ♄ ☿ Winds
24	e	St. Bartholomew	gem.	14	9	54	ſtormy, then
25	f	☽ prore Propus	gem.	26	10	43	follows ſome
26	g	☽ pr. luc. ped. ♊	canc.	7	11	32	∗ ♂ ☿ fair and
27	a	Dog-days end	canc.	19	12	41	□ ♃ ♂ dry
28	b	☽ prope Aſſellos	leo	1	0M	41	weather, & tolera
29	c	☽ pr. caput Leon.	leo	13	1	57	∗ ♃ ♀ ble goo
30	d	14 Sun. aft. Trin.	leo	25	3	11	Harveſt Weathe
31	e	☽ pr. Terg. Leon.	virgo	7	4	27	☍ ☉ ♄ to the en

Moon's ſetting.

Moon's riſing.

♄ at the beginning is ſouth between 1 *and* 2 *in the morning, at the end between* 12 *and* 1. *♃ at the beginning is combuſt, at the end emergeth, riſing before the Sun. ♂ at the beginning ſets between* 9 *and* 10 *at night, at the end between* 8 *and* 9. *♀ ſets an Hour after ☉. ☿ is combuſt.*

	For. Account.	Rom. Kalend.	Rom. Sts.days.					
1	12	g	Clara V.	the neareſt diſtance of the	4	38	7	22
2	13	A	12S.p.Tri.	Clouds from the Earth is		40		20
3	14	b	Euſebius	not above half a *German*		41		19
4	15	c	Aſ. V. M.	Mile, or two *Engliſh* Miles		43		17
5	16	d	Hyacinth.	and a half; but they are		45		15
6	17	e	Agapitus	often nothing near ſo high		47		13
7	18	f	Helena	here in *England*, as I have		49		11
8	19	g	Clintan	often obſerved, and that in		51		9
9	20	A	13S.p.Tri.	fair Weather too, when	4	53	7	7
0	21	b	Athanaſius	one may reaſonably ſup-		55		5
1	22	c	Syphora	poſe them higher than in		56		4
2	23	d	Zacheus	a wet and ſhowery Time	4	58	7	2
3	24	e	S. Barthol.	*Kepler* in his foremention'd	5	0	7	0
4	25	f	Severinus	*Epit. Aſtronom.* p. 70. & 71.	5	2	6	58
5	26	g	Sopherus	where he ſheweth how to		3		57
6	27	A	14S.p.Tri.	meaſure the Altitude of a		5		55
7	28	b	Auguſtin	Cloud, the Queſtion being,		7		53
8	29	c	Dec. J Bap	*Quomodo metimur nubis ali*		9		51
9	30	d	Felix	*cujus altitudinem?* He an-		11		49
0	31	e	Paulinus	ſwers, *Non multo aliter,*		13		47
1	Sept.		Ægidius	*quam ſolent alias menſurari*		16	5	44
2	2	g	Anthony	*diſtantiæ rerum in acceſſa*		18		42
3	3	A	15S.p.Tri.	*rum, ex duabis*, &c. In		20		40
4	4	b	Theodoſia	this Scheme he ſuppoſeth		22		38
5	5	c	Zacharius	and taketh ſuch Numbers	5	24		36
6	6	d	Magnus	as bring the Height of the		26		34
7	7	e	Regina	Cloud to be 1666 Paces,		28		32
8	8	f	Nat. V. M.	which is near 1 $\frac{2}{3}$ Mile;		30		30
9	9	g	Gorgon	but I have often found		32		28
0	10	A	16S.p.Tri.	them not a Mile in height,	5	34	5	26
1	11	b	Felix	and		36		24

September hath XXX Days.

● New moon the 1ſt day, at 10 in the morning.
☽ Firſt Quarter the 8th day, at 4 in the Afternoon.
● Full moon the 15th day, at 10 in the morning.
☾ Laſt Quarter the 23d day, at 2 in the morning.
● New moon the 30th day, at 11 at Night.

1	f	☽ pr.caud.Leon.	virgo	20	New ●	
2	g	☽ pr.Vindemiat.	libra	3	6 A 12	Moon's ſetting.
3	a	☽ pr. SpicaVirg.	libra	16	6 29	
4	b	☽ pr. Lanc. auſt.	libra	29	6 47	
5	c	☽ pr. Lanc. Bor.	ſcorp.	13	7 13	
6	D	15 Sun. af. Trin.	ſcorp.	26	7 45	
7	e	♄ ♓ 18 ℞.	ſagit.	10	8 37	
8	f	♃ ♌ 28.	ſagit.	24	9 35	
9	g	♂ ♐ 4.	capr.	8	10 5	
10	a	♀ ♏ 10.	capr.	22	12 18	
11	b	☿ ♎ 19.	aquar.	7	0 M 18	
12	c	Sol in Libra	aqua.	21	1 40	
13	D	16 Sun. aft. Trin.	piſces	6	3 16	
14	e	Exalt. Crucis	piſces	20	4 45	
15	f	☊ ♑ 21.	aries	4	Full ●	
16	g	Ember-Week	aries	18	5 A 43	Moon's riſing.
17	a	☽ pr. cap. Ariet.	taur.	1	6 19	
18	b	☽ pr.caud. ariet	taur.	14	6 57	
19	c	☽ prop. Pleiades	taur.	27	7 37	
20	D	17 Sun. aft. Trin	gem.	10	8 14	
21	e	St. Matthew	gem.	22	8 53	
22	f	☽ pr.luc. ped. ♊	canc.	4	9 31	
23	g	☽ pr.Caſt.&Poll.	canc.	15	10 40	
24	a	☽ pr. Aſſellos	canc.	27	11 51	
25	b	☽ pr.caputLeon.	leo	9	13 3	
26	c	☽ pr.cord.Leon	leo	21	0 M 3	
27	D	18 Sun. aſt. Trin.	virgo	3	2 47	
28	e	☽ pr.caud. Leon.	virgo	16	4 25	
29	f	St. Michael	virgo	29	6 11	
30	g	☽ pr.Spica.Virg	libra	12	New ●	

Fair and pleaſant at the beginning, but about the 4th or 5th days high Winds and Storm are expected. Now fair and ſeaſonable for ſeveral days, and may probably continue ſo till about the Full-moon, when we may △ ♄ ♀ expect ſome driſling ✶ ♃ ☿ Rain or Showers, then follows fair and dry Weather with ſome miſty Mornings and ho Afternoons; othe whiles ſome □ ♄ ♂ cooling Gales of Wind, & generally fair □ ♃ ♀ till the end of the month

♄ at beginning is ſouth between 11 *and* 12 *at night, at the end between* 10 *and* 11. *♃ at beginning riſes between* 3 *and* 4 *in the morn. at the end between* 2 *and* 3. *♂ at beginning ſets about* 8 *at night, at the end between* 7 *and* 8. *♀ ſets an Hour after ☉. ☿ emergeth, ſetting a little after the Sun.*

For. Account.	Rom. Kalend.		Rom. Sts. days				
1	12	c	Tobias	and that in Summer-time,	1	5 38	6 22
2	13	d	Amatus	when ſeveral little com-	2	40	20
3	14	e	Exalt. Cru	pact Clouds have very	3	42	18
4	15	f	Nicomed.	ſlowly floated about, ſo	4	44	16
5	16	g	Feriolus	that it might eaſily be diſ-	5	46	14
6	17	A	17 S. p. Tri.	cerned which Cloud made	6	48	12
7	18	b	Januarius	ſuch a certain Shadow, as	7	50	10
8	19	c	Victor	in the following Obſerva-	8	52	6 8
9	20	d	Fauſta	tion. The Altitude of the	9	54	6
10	21	e	**S Matthew**	Sun 35°, the Altitude of a	10	56	4
11	22	f	Mauritius	certain little Cloud 20°,	11	5 58	6 2
12	23	g	Tecla V. M	being in the ſame vertical	12	6 0	6 0
13	24	A	18 S. p. Tri.	Line with the Sun, the	13	6 2	5 58
14	25	b	Cleophas	diſtance of the Shadow of	14	4	56
15	26	c	Cyprianus	the ſame Cloud from the	15	6	54
16	27	d	Coſ. & Da.	Station 2304 Yards; hence	16	8	52
17	28	e	Wencella	is conſtituted a Triangle	17	10	50
18	29	f	S. Michael	of theſe three Lines. Firſt,	18	12	48
	30	g	Hierom	the Line from the Station	19	14	46
0	Octo.		19 S. p. Tri.	to the Cloud. Secondly,	20	6 16	5 44
1	2	b	Leodegar	the Line from the Cloud	21	19	41
2	3	c	Maximin.	to the Shadow. Thirdly,	22	21	39
3	4	d	Conſtance	the Line from the Shadow	23	23	37
4	5	e	Francis	to the Station, which Side	24	25	35
5	6	f	Fides	is known, as alſo all the	25	27	33
6	7	g	Marcus	Angles. Firſt, the ∠ at	26	29	31
7	8	A	20 S. p. Tri.	the Station, being the Al-	27	31	29
8	9	b	Dionyſius	titude of the Cloud, 20°.	28	33	27
9	10	c	Burchard	Secondly, the ∠ at the Sha-	29	35	25
0	11	d	Gideon	dow, being the Comple-	30	6 37	5 23
				ment			

October hath XXXI Days.

☽ Firſt Quarter the 7th day, at 10 at Night.
● Full moon the 14th day, at 11 at Night.
☾ Laſt Quarter the 22th day, at 9 at Night.
● New moon the 30th day, at Noon.

1	a	☽ pr.auſ.veſt. ♍	libra	25	5 A	0		Some miſty mor
2	b	☽ pr. lanc. auſt.	ſcorp.	9	5	27		∗ ☉ ♂ ings,wit
3	c	☽ pr. lanc. Bor.	ſcorp.	23	5	55		△ ♄ ☿ fair an
4	D	19 Sun. aſt. Trin	ſagit.	7	6	41		warm Afternoon
5	e	♄ ♓ 16 ℞	ſagit.	21	7	39	Moon's ſetting.	but the 4th or 5t
6	f	♃ ♍ 3.	capri.	5	8	50		days ſome briſk
7	g	♂ ♐ 24.	capri.	19	10	14		winds, & Shower
8	a	♀ ♐ 13.	aqua.	3	11	41		therewith, and
9	b	☿ ♏ 18.	aqua.	17	13	6		may probably
10	c	☊ ♑ 21.	piſces	1	1 M	6		continue ſtormy
11	D	K. Geo. II. Coron.	piſces	15	2	35		☐ ♄ ♀ for ſom
12	e	Sol in Scorpion	piſces	29	3	52		days; then ſom
13	f	☽ pr. Vent. Cet.	aries	13	5	14		froſty mornings
14	g	☽ pr.pri. ∗ ariet.	aries	26	Full	●		and fair days, an
15	a	☽ pr. Manker	taur.	9	4 A	34		(except ſome
16	b	☽ pr. Pleiades	taur.	22	5	11		Showers & Storm
17	c	☽ pr. Aldebaran	gem.	5	5	48	Moon's riſing.	∗ ☉ ♃. △ ♄ ♀
18	D	St. Luke	gem.	17	6	25		about the Full
19	e	☽ pr. luc. ped. ♊	canc.	0	7	29		moon) generally
20	f	☽ pr. Caſt. & Pol.	canc.	12	8	33		fair and froſty;
21	g	☽ pr. Aſſellos	canc.	23	9	37		but the 22 or 2
22	a	☽ pr. caput leon.	leo	5	10	48		days produce
23	b	Term begins	leo	17	12	1		☌ ☉ ♀ cold driſ-
24	c	☽ pr Terg. Leon	leo	29	0 M	1		ling Rain or ſhow-
25	D	22 Sun. aſt. Trin.	virgo	11	1	17		△ ♃ ♂. ers, alſ
26	e	☽ pr. ſin. alam ♍	virgo	24	2	36		∗ ♂ ☿. ∗ ♃ ♀
27	f	☽ pr. Vindemiat.	libra	7	3	43		ſome briſk Wind
28	g	S. Simon & Jude	libra	20	5	4		& frequent ſhow-
29	a	☽ pr. lanc. auſt.	ſcorp.	4	6	25		△ ☉ ♄. ∗ ♀ ☿
30	b	K. Geo. II. Nat.	ſcorp.	18	New	●		ers of cold Rain
31	c	☽ pr. cord. Scorp	ſagit.	2	4 A	34		Snow or Sleet.

SAUNDER. October, 1730.

♄ at beginning is ſouth between 9 and 10 at night, at the end between 8 and 9. ♃ at beginning riſes about 2 in the morn. at the end about 1. ♂ at beginning ſets between 7 and 8 at night, at the end ſoon after 7. ♀ ſets between 6 and 7 at night. ☿ is going to Combuſtion, and toward the end is combuſt.

Eng. Account.	For. Account.	Rom. Kalend.	Rom.Sts.days.						
1	12	e	Coleman	ment of the Sun's Altitude	1	6	39	5	21
2	13	f	Edward	to 180°. and is 145°.	2		41		19
3	14	g	Calixtus	Thirdly, the Complement	3		43		17
4	15	A	21S.p.Tri.	of theſe two Angles to	4		45		15
5	16	b	Gallus	180°. is 15°. the L at the	5		47		13
6	17	c	Florent.	Cloud; then ſay, 1. 15°.	6		49		11
7	18	d	St. Luke	2304 : : 1. 20° to 3045,	7		51		9
8	19	e	Ptolomy	the diſtance of the Cloud	8		53		7
9	20	f	Wendelin.	from the Shadow: Then	9		55		5
10	21	g	Cordula	1. 90° : 3045 : : 1. 35° :	10		57		3
11	22	A	22S.p.Tri.	to 1747 Yards, the per-	11	6	59	5	1
12	23	b	Romanus	pendicular Height of the	12	7	1	4	59
13	24	c	Salome	Cloud, or diſtance of it	13		3		57
14	25	d	Criſpin.	from the Earth, which is	14		5		55
15	26	e	Amandus	not all out half a Mile	15		7		53
16	27	f	Urſula	But I have often obſerved	16		9		51
17	28	g	Sim&Jude	ſome Clouds not above half	17		11		49
18	29	A	23S.p.Tri.	ſo high, tho' at the ſame	18		13		47
19	30	b	Theoneſt.	time there were many	19		15		45
20	31	c	Wolfgan.	Clouds that ſeemed three	20	7	17	4	43
21	Nov.		All Saints	or four times as high a	21		19		41
22	2	e	All Souls	theſe lower, which alſo	22		20		40
23	3	f	Theophil.	moved very little, whilſt	23		22		38
24	4	g	Amandus	the lower were carried on	24		24		36
25	5	A	24S.p.Tri.	very ſwiftly with high	25		26		34
26	6	b	Leonard	Winds; and it is generally	26		28		32
27	7	c	Wilibald	obſerved, that when there	27		30		30
28	8	d	Theodore	are Clouds of ſeveral and	28		32		28
29	9	e	Severus	very different Altitudes,	29		34		26
30	10	f	Martin P.	that the lower Clouds	30	7	35	4	25
31	11	g	Martin B	move	31		37		23

November hath XXX Days.

☽ Firſt Quarter the 6th day, at 6 in the morning.
● Full Moon the 13th day, at 2 in the Afternoon.
☾ Laſt Quarter the 21ſt day, at 6 at Night.
● New Moon the 28th day, at 11 at Night.

1	D	All Saints	ſagit.	17	5 A	41
2	e	All Souls	capr.	1	6	38
3	f	☽ pr. ult. incap. ♐	capr.	16	8	2
4	g	☽ pr. corn. auſ. ♑	aqua.	0	9	29
5	a	Gunpowder Plot	aqua.	14	11	7
6	b	♄ ♓ 15 St. ad D.	aqua.	28	12	21
7	c	♃ ♍ 8.	piſces	12	0 M	21
8	D	24 Sun. aft. Trin.	piſces	26	1	37
9	e	♂ ♑ 18.	aries	9	3	0
10	f	♀ ♑ 16.	aries	22	4	18
11	g	St. Martin	taur.	5	5	37
12	a	Sol in Sagittary	taur.	18	6	53
13	b	☿ ♏ 14.	gem.	1	Full	●
14	c	☊ ♑ 20.	gem.	13	4 A	8
15	D	25 Sun. aft. Trin.	gem.	20	5	10
16	e	☽ pr. Caſtor	canc.	8	6	13
17	f	St. Hugh	canc.	12	7	17
18	g	☽ pr. Aſſellos	leo	1	8	26
19	a	☽ pr. caput Leon	leo	13	9	37
20	b	☽ pr. cord. Leon	leo	25	10	48
21	c	☽ pr. Terg. Leon.	virgo	7	11	58
22	D	26 Sun. aft. Trin.	virgo	19	13	17
23	e	☽ pr. Vindemiat.	libra	2	1 M	17
24	f	☽ pr. Spicam ♍	libra	15	2	28
25	g	☽ pr. auſ. veſt. ♏	libra	28	3	45
26	a	☽ pr. Lanc. Auſt.	ſcorp.	12	5	6
27	b	☽ pr. Front. ♏.	ſcorp.	26	6	28
28	c	Term ends	ſagit.	11	New	●
29	D	Advent Sund.	ſagit.	25	4 A	10
30	e	St. Andrew	capri.	10	5	26

Moon's ſetting.

Moon's riſing.

△ ♃ ♀ Sharp and froſty at the beginning; about the 5th or 6 days ⚹ ♄ ♂ high winds with Storms of cold Rain or Snow. ⚹ ♃ ☿ Now ſome ⚹ ♄ ♀. mild and pleaſant days are expected, alſo cloudy and cloſe, bringing cold △ ♄ ☿. Rain or Snow after the Full moon; then ſharp and froſty, till about the □ ☉ ♃ 20 or 21 days, when we ⚹ ♀ ☿ may expect high Winds, bringing plenty of Snow or ⚹ ♂ ☿ Rain, yet □ ☉ ♄ continues very ſharp and froſty, and very Winter-like □ ♃ ♀. Weather at the end.

SAUNDER. November, 1730.

♄ *at the beginning is ſouth near* 8 *at night, at the end ſoon after* 6. ♃ *at the beginning riſes between* 12 *and* 1 *in the morning, at the end about* 11 *at night.* ♂ *ſets a little after* 7 *at night.* ♀ *ſets about* 10 *Minutes before* Mars. ☿ *emergeth, riſing a little before the* Sun.

Eng. Account.	For. Account.	Rom. Kalend.	Rom. Sts. days.					
1	12	A	25 S.p.Tr.	1	7	39	4	21
2	13	b	Aſcanias	2		41		19
3	14	c	Fredericus	3		43		17
4	15	d	Leopold	4		45		15
5	16	e	Edmund	5		46		14
6	17	f	Hugo	6		48		12
7	18	g	Hezechia	7		49		11
8	19	A	26 S.p.Tr.	8		51		9
9	20	b	Eugenius	9	7	52	4	8
10	21	c	Ob. V. M.	10		54		6
11	22	d	Cœcilia	11		55		5
12	23	e	Clement	12		57		3
13	24	f	Chryſog.	13	7	58	4	2
14	25	g	Katherine	14	8	0	4	0
15	26	A	27 S.p.Tr.	15	8	1	3	59
16	27	b	Ruffus	16		2		58
17	28	c	Thomas	17		4		56
18	29	d	Saturnus	18		5		55
19	30	e	S. Andrew	19		6		54
20	Dec.		Longinus	20		7		53
21	2	g	Libanus	21	8	8	3	52
22	3	A	Adv. Sund	22		9		51
23	4	b	Barbara	23		10		50
24	5	c	Sabina	24		11		49
25	6	d	Nicholas	25		12		48
26	7	e	Agatha	26		13		47
27	8	f	Con. V. M.	27		14		46
28	9	g	Joachim	28		15		45
29	10	A	2 S. in Adv.	29		15		45
30	11	b	Damaſcus	30	8	16	3	44

move ſwiftly, when as the higher move very little, and ſometimes contrary to the lower, which ſhew that the Currents of Winds near the Earth are much ſwifter than at a great diſtance; and that ſometimes the Current above is contrary to that below. As to thoſe Clouds that bring us great plenty of Rain, and whoſe Altitude cannot be ſo exactly taken, by reaſon we have not any Opportunity of ſeeing where their Shadows terminate, yet we may conclude them very low, for the reaſon that others that appear much higher are found (as before is obſerved) not a Mile high. Alſo from great Thunder Showers it may be concluded that the Clouds are very low; for it hath been often obſerved, that the Thunder, which with the Lightning, hath been in ſome Places very

November hath XXX Days.

☽ Firſt Quarter the 6th day, at 6 in the morning.
● Full Moon the 13th day, at 2 in the Afternoon.
☾ Laſt Quarter the 21ſt day, at 6 at Night.
● New Moon the 28th day, at 11 at Night.

1	D	All Saints	ſagit.	17	5 A	41		△ ♃ ♀ Sharp an
2	e	All Souls	capr.	1	6	38		froſty at the
3	f	☽ pr.ult.incap.♐	capr.	16	8	2		beginning; abou
4	g	☽ pr.corn. auſ. ♑	aqua.	0	9	29		the 5th or 6 day
5	a	Gunpowder Plot	aqua.	14	11	7	Moon's ſetting.	✶ ♄ ♂ high wind
6	b	♄ ♓ 15 St. ad D.	aqua.	28	12	21		with Storms of
7	c	♃ ♍ 8.	piſces	12	0 M	21		cold Rain or Snow.
8	D	24 Sun. aft. Trin.	piſces	26	1	37		✶ ♃ ☿ Now ſome
9	e	♂ ♑ 18.	aries	9	3	0		✶ ♄ ♀. mild and
10	f	♀ ♑ 16.	aries	22	4	18		pleaſant days
11	g	St. Martin	taur.	5	5	37		are expected, alſ
12	a	Sol in Sagittary	taur.	18	6	53		cloudy and cloſe,
13	b	☿ ♏ 14.	gem.	1	Full	●		bringing cold
14	c	☊ ♑ 20.	gem.	13	4 A	8		△ ♄ ☿. Rain o
15	D	25 Sun. aft. Trin.	gem.	20	5	10		Snow after the
16	e	☽ pr. Caſtor	canc.	8	6	13	Moon's riſing.	Full moon; then
17	f	St. Hugh	canc.	12	7	17		ſharp and froſty,
18	g	☽ pr. Aſſellos	leo	1	8	26		till about the
19	a	☽ pr.caput Leon	leo	13	9	37		□ ☉ ♃ 20 or 21
20	b	☽ pr. cord.Leon	leo	25	10	48		days, when we
21	c	☽ pr.Terg.Leon.	virgo	7	11	58		✶ ♀ ☿ may ex-
22	D	26 Sun. aft. Trin.	virgo	19	13	17		pect high Winds,
23	e	☽ pr.Vindemiat.	libra	2	1 M	17		bringing plenty
24	f	☽ pr. Spicam ♍	libra	15	2	28		of Snow or
25	g	☽ pr. auſ.veſt. ♏	libra	28	3	45		✶ ♂ ☿ Rain, ye
26	a	☽ pr.Lanc.Auſt.	ſcorp.	12	5	6		□ ☉ ♄ continues
27	b	☽ pr. Front. ♏.	ſcorp.	26	6	28		very ſharp and
28	c	Term ends	ſagit.	11	New	●		froſty, and very
29	D	Advent Sund.	ſagit.	25	4 A	10		Winter-like
30	e	St. Andrew	capri.	10	5	26		□ ♃ ♀. Weathe at the end.

November, 1730.

♄ *at the beginning is ſouth near* 8 *at night, at the end ſoon after* 6. ♃ *at the beginning riſes between* 12 *and* 1 *in the morning, at the end about* 11 *at night.* ♂ *ſets a little after* 7 *at night.* ♀ *ſets about* 10 *Minutes before* Mars. ☿ *emergeth, riſing a little before the* Sun.

Eng. Account.	For. Account.	Rom. Kalend.	Rom.Sts.days.						
1	12	A	25 S.p.Tr.	move ſwiftly, when as the	1	7	39	4	21
2	13	b	Aſcanias	higher move very little,	2		41		19
3	14	c	Fredericus	and ſometimes contrary to	3		43		17
4	15	d	Leopold	the lower, which ſhew that	4		45		15
5	16	e	Edmund	the Currents of Winds near	5		46		14
6	17	f	Hugo	the Earth are much ſwifter	6		48		12
7	18	g	Hezechia	than at a great diſtance;	7		49		11
8	19	A	26 S.p.Tr.	and that ſometimes the	8		51		9
9	20	b	Eugenius	Current above is contrary	9	7	52	4	8
10	21	c	Ob. V. M.	to that below. As to thoſe	10		54		6
11	22	d	Cœcilia	Clouds that bring us great	11		55		5
12	23	e	Clement	plenty of Rain, and whoſe	12		57		3
13	24	f	Chryſog.	Altitude cannot be ſo ex-	13	7	58	4	2
14	25	g	Katherine	actly taken, by reaſon we	14	8	0	4	0
15	26	A	27 S.p.Tr.	have not any Opportunity	15	8	1	3	59
16	27	b	Ruffus	of ſeeing where their Sha-	16		2		58
17	28	c	Thomas	dows terminate, yet we	17		4		56
18	29	d	Saturnus	may conclude them very	18		5		55
19	30	e	S. Andrew	low, for the reaſon that	19		6		54
20	Dec.		Longinus	others that appear much	20		7		53
21	2	g	Libanus	higher are found (as before	21	8	8	3	52
22	3	A	Adv. Sund.	is obſerved) not a Mile	22		9		51
23	4	b	Barbara	high. Alſo from great	23		10		50
24	5	c	Sabina	Thunder Showers it may	24		11		49
25	6	d	Nicholas	be concluded that the	25		12		48
26	7	e	Agatha	Clouds are very low; for	26		13		47
27	8	f	Con. V. M.	it hath been often obſer-	27		14		46
28	9	g	Joachim	ved, that the Thunder,	28		15		45
29	10	A	2 S. in Adv.	which with the Lightning,	29		15		45
30	11	b	Damaſcus	hath been in ſome Places	30	8	16	3	44

very

December hath XXXI Days.

☽ Firſt Quarter the 5th day, at 4 in the Afternoon.
● Full moon the 13th day, at 9 in the morning.
☾ Laſt Quarter the 21th day, at 1 in the Afternoon.
● New moon the 28th day, at 11 in the morning.

1	f	☽ pr. corn. auſ. ♑	capri.	25	7 A	3		Cloudy, cloſe, and
2	g	☽ pr. hum. ſin. ♒	aqua.	10	8	30		cold, with driſling
3	a	☽ pr. dex. Cru. ♒	aqua.	25	9	57		Rain or Snow
4	b	♄ ♓ 16 D.	piſces	9	11	20	Moon's ſetting.	□ ♄ ☿ at the
5	c	♃ ♍ 10.	piſces	23	12	39		beginning, and
6	D	2 Sund. in Adv.	aries	6	0 M	39		continues raw,
7	e	♂ ♒ 10.	aries	19	1	58		and foggy, and
8	f	♀ ♒ 6.	taurus	2	3	15		plenty of Moi-
9	g	☿ ♐ 23.	taur.	15	4	30		ſture follows,
10	a	☊ ♑ 19.	taur.	27	5	4		and continues
11	b	Sol in Capricorn	gem.	10	6	52		cold. About the
12	c	☽ pr. Propus	gem.	22	7	51		Full moon
13	D	3 Sund. in Adv.	canc.	4	Full	●		Winds, rough and
14	e	☽ pr. Caſt. & Pol.	canc.	16	4 A	50		turbulent, with
15	f	☽ pr. Aſſellos	canc.	28	5	57		Snow or cold
16	g	Ember-Week	leo	10	7	5	Moon's riſing.	Rain; otherwhiles
17	a	☽ pr. cord. Leon.	leo	22	8	11		froſty, but of
18	b	☽ pr. Tergum ♌	virgo	3	9	30		ſhort continuance.
19	c	☽ pr. caud. Leon	virgo	15	10	41		☌ ☉ ☿ Froſt again,
20	D	4 Sund. in Adv.	virgo	28	12	3		△ ♃ ☿. △ ☉ ♃.
21	e	St. Thomas	libra	10	0 M	3		but not without
22	f	☽ pr. auſ. veſt. ♍	libra	23	1	10		Winds, bringing
23	g	☽ pr. Lanc. auſt.	ſcorp.	6	2	28		Snow or cold
24	a	☽ pr. Lanc. Bor.	ſcorp.	20	3	4		✱ ♄ ♀ Rain, and
25	b	Nativ. of Chriſt	ſagit.	4	4	57		continues very
26	c	St. Stephen	ſagit.	19	6	9		ſharp, with
27	D	St. John	capri.	3	7	22		✱ ☉ ♄ rough
28	e	Innocents	capri.	19	New	●		Winds, and plenty
29	f	☽ pr. luc man. ♒	aquar.	4	5 A	44		of ſtormy Wea-
30	g	☽ pr. ſeq. Terg ♑	aquar.	19	7	15		ther at the end
31	a	Silveſter	piſces	4	8	44		of the Year.

SAVNDER. December, 1730.

♄ at the beginning is ſouth between 5 *and* 6 *at night, at the end ſoon after* 4, *and ſets then between* 9 *and* 10. *♃ at the beginning riſes between* 10 *and* 11 *at night, at the end about* 9. *♂ ſets between* 7 *and* 8 *at night. ♀ ſets about a quarter before* Mars. *☿ is combuſt.*

Eng. Account.	For. Account.	Rom. Kalend.	Rom. Sts. days.					
1	12	c	Valerius	1	3	16	3	44
2	13	d	Lucia V.	2		16		44
3	14	e	Nicaſius	3		17		43
4	15	f	Abraham	4		17		43
5	16	g	Ananias	5		18		42
6	17	A	3S. in Adv.	6		18		42
7	18	b	Rufus	7		18		42
8	19	c	Loth	8		19		41
9	20	d	Ammon	9		19		41
10	21	e	S. Thomas	10		19		41
11	22	f	30 Mart.	11	8	19	3	41
12	23	g	Victor	12		19		41
3	24	A	4S. in Adv.	13		19		41
4	25	b	Chriſtmas	14		19		41
5	26	c	St. Stephen	15		18		42
6	27	d	St. John	16		18		42
7	28	e	Innocents	17		18		42
8	29	f	Jonathan	18		17		43
9	30	g	David	19		17		43
0	31	A	1S. p. Chr.	20	8	16	3	44
1	Jan. 1731.		Circu.	21		16		44
2	2	b	Abel	22		15		45
3	3	c	Enoch	23		15		45
4	4	d	Methuſal.	24		14		46
5	5	e	Simeon	25		14		46
6	6	f	Epiphany	26		13		47
7	7	G	1S. p. Epip.	27		12		48
8	8	a	Echard	28		11		49
9	9	b	Marcellus	29		10		50
0	10	c	Nicanor	30	8	9	3	51
1	11	d	Higinus	31		8		5

very terrible, and done much Harm, hath been heard very little or not at all at 10 or 12 Miles diſtance, which ſheweth that it muſt be very near where it was ſo terrible, otherwiſe it would have been more heard at the diſtance of 10 or 12 Miles. But the diſtance of that part of a Cloud from whence the Thunder comes may nearly be computed, by nicely counting the Seconds in Time betwixt the Lightning and the Clap of Thunder, and ſo many times as there are 5 Seconds and a half between the Flaſh and the Clap of Thunder, ſo many Miles is the Cloud diſtant from you which produceth the Lightning and Thunder, or nearly ſo.

A TABLE ſhewing how many Years Purchaſe a Leaſe or Annuity (to endure for any number of Years under 33) is wort preſently, at Intereſt upon Intereſt, at Six in the Hundred and ſhewing plainly how to diſcount any Leaſe in being and the value of the Reverſion after any number of Years.

The Uſe and Explanation of the TABLE.

The firſt Column towards the left Hand, ſheweth the Years of a Leaſe, or Annuity; and right againſt each Year, is the Years, Months, and Tenth Parts of a Months Purchaſe, that ſuch a Leaſe or Annuity is worth.

Example.

Suppoſe a Leaſe or Annuity to continue 12 *Years, and you would know how many Years Purchaſe it is worth in preſent Money, look in the Table for Twelve Years of a Leaſe to the Left Hand, and againſt the ſame you ſhall find* 8, 4, 6, *which ſheweth that ſuch a Leaſe is worth* 8 *Years,* 4 *Months, and* 6 *Tenth Parts of a Months Purchaſe.*

Years of a Leaſe.	*Years.*	*Months.*	*10th parts.*
1	0	11	0
2	1	9	9
3	2	8	1
4	3	5	9
5	4	2	5
6	4	11	1
7	5	7	0
8	6	2	7
9	6	9	9
10	7	4	3
11	7	10	7
12	8	4	6
13	8	10	3
14	9	3	6
15	9	8	5
16	10	1	3
17	10	5	[illegible]
18	10	9	[illegible]
19	11	1	[illegible]
20	11	5	[illegible]
21	11	9	[illegible]
22	12	0	[illegible]
23	12	3	[illegible]
24	12	6	[illegible]
25	12	9	[illegible]
26	13	0	[illegible]
27	13	2	[illegible]
28	13	4	[illegible]
29	13	7	[illegible]
30	13	9	[illegible]
31	13	11	[illegible]
32	14	1	[illegible]

AGAIN,

If you are to take or buy the Reverſion of any Leaſe or Annuity, work thus: Suppoſe the Leaſe to be thirty Years in all you find in the Second Table and Right Hand againſt Thirty 13 Years, 9 Months, and 2 Tenth Parts of a Months Purchaſe this it were worth were it in preſent Poſſeſſion. But ſuppoſ there be a Leaſe of five Years (more or leſs) before you commence, look in the Table againſt the five Years, and there yo find 4 Years, 2 Months, and 5 Tenth parts of a Months Purchaſe: Take this out of the Sum againſt Thirty, which is 13, 9, 2. the Remainder is, 9, 6, 7, which is 9 Years, Months, and 7 Tenth Parts of a Month; and ſo much is th Reverſion after 5 Years, worth the Remainder of 30 Years.

This is Uſeful, and very Eaſie.

SAUNDER, 1730.

The SECOND PART.

Containing the Eclipſes; the Suns Quarterly Ingreſſes; the Southing of the 7 Stars for every 5th Day of this Year; with Directions for finding the Riſing, Southing and Setting of ſeveral Fixed Stars: As alſo, Rules & Tables to meaſure *Timber*: And other Things worth Obſervation.

The Characters of the Twelve Signs, and what parts of the Body they are ſaid to govern.

♈ Aries, *Head & Face*; ♉ Taurus, *Neck & Throat*; ♊ Gemini, *Arms & Shoulders*; ♋ Cancer, *Breaſt & Stomach*; ♌ Leo, *Heart & Back*; ♍ Virgo, *Bowels & Belly*; ♎ Libra, *Reins & Loins*; ♏ Scorpio, *Secrets*; ♐ Sagittary, *Thighs*; ♑ Capricorn, *Knees*; ♒ Aquarius, *Legs*; ♓ Piſces, *the Feet*.

The Characters of the planets, with the Dragons Head and Tail, ♄ Saturn, ♃ Jupiter, ♂ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☽ Moon, ☊ Dragons Head, ☋ Dragons Tail.

The Aſpects.

☌ Conjunction, ✱ Sextile, □ Quartile, △ Trine, ☍ Oppoſition.

A Brief Chronology of Memorable Things, to this Year, 1730.

THE Creation of the World	5679
Noah's Flood	4023
The Deſtruction of *Sodom* and *Gomorrah*	3632
The Deſtruction of *Troy*	2912
Brute entred this Iſland	2837
The Building of *London*	2837
The Building of *York*	2719
The Building of *Leiceſter*	2673
The Building of *Canterbury*	2622
The Building of *Stamford*	2593
The Building of *Rome*	2482
The Deſtruction of *Jeruſalem* by *T. Veſp.*	1643
England firſt received the Chriſtian Faith	1550
The Tower of *London* built	1165
Duke *William* conquered *England*	664
Weſtminſter Hall was built	631
The Bible divided into Chapters	535

Since
The Invention of Guns
The Art of Printing
St. *Pauls* Steeple fired
New Star in *Caſſiopeia*
A great Snow fell *Feb.* 4:
Tilbury Camp on St. *James's* day
A Plague in *London*, whereof dyed 30598
Gunpowder Treaſon, *November* 5.
A great Snow, and *Smithfield* paved
A great Plague in *London*, whereof dyed 35418
The Long Parliament began, *November* 3.
King *Charles* the Firſt was Murdered
Two Comets appeared in *December* and *March*
The doleful Plague that followed them
London was burnt, *September* 2, 3, 4, 5
The laſt great Snow
The wonderful Comet in *December*
A Comet in *Auguſt*
The terrible Fire in *Wapping*, *November* 19.
A great Earthquake, *October* the 6th
The laſt great Froſt
The Rebellion in the *Weſt*
The ſeven Biſhops ſent to the Tower, *June*
The Prince of *Orange* Landed, *November* 5.
King *William* went to *Ireland* with an Army, *June*
The *French* Fleet beaten by the *Engliſh* and *Dutch*, &c.
Our moſt Gracious Queen *Mary* Dyed, *Dec.* 28.
The Horrid Conſpiracy to Aſſaſſinate His Majeſty King *William*, and to bring in the *French*, was happily diſc.
The Peace concluded with *France*
War again proclaimed againſt *France*, &c.
Gibraltar taken by the *Engliſh* & *Dutch* Fleet, *July*
The Glorious Battle of *Blenheim*, where the *French* were Beaten by the Confederates
The Battle of *Ramillis*, wherein the *French* were beaten
England and *Scotland* made one Kingdom, by the Name of *Great Britain*, *May* 1.
Peace again concluded with *France*, 1713
King *George* 1. proclaim'd *Aug.* 1. 1714.
King *George* 1. died, *June* 11. 1727.
King *George* 2. proclaimed, *June* 15, 1727.
And crowned *October* 11. 1727.

Of the Eclipſes this Year, 1730.

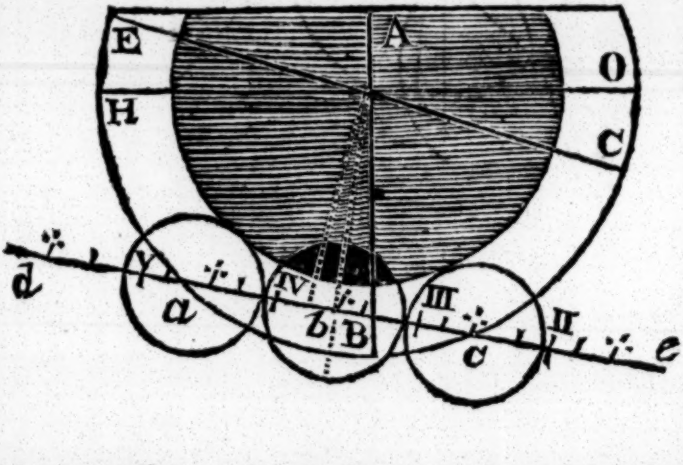
FIVE Times will the two great Luminaries be eclipſed to the Inhabitants of this Terraqueous Planet ; they ppen in the follwing Order.

The firſt is of the Sun, January the 7th, about 7 at Night, herefore inviſible here, and to all Europe : It will be viſible o all the South Parts of America, Zelandia Nova, *&c.* and ery great about the Magellanick Straits, Chili, *&c.*

The ſecond is a viſible, but partial, Eclipſe of the Moon, an 22. as followeth,

The apparent Time at *Leiceſter* of

	d.	h.	′	″	
The Beginning Jan.	22	14	31	24	P. M.
The Middle		15	33	33	
The End		16	35	42	
The total Duration		2	4	18	
The Digits Eclipſed 3d 27′ 18″					

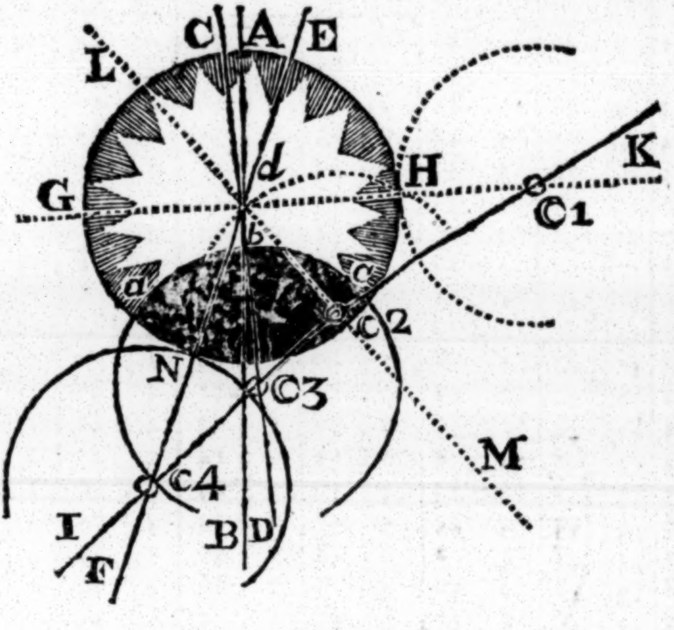


H.O. a Parallel to the Horizon ; A.B. a vertical paſſing hrough the Earth's Shadow ; E.C. the Ecliptick ; a,c.b,a,d. he Moon's Way, ſhewing by the Hours, *&c.* the Motion of he Moon's Center during the Eclipſe ; c, the Moon's Center t the Beginning ; b, at the Middle ; a, at the End.

The third Eclipſe is of the Sun, *July* 4. in the Morning, and part of it viſible here if Clouds don't interpoſe, as follows.

		d.	h.	′	
The appa-rent Time at *Leiceſter* of the	Beginning July	4	2	40	Mate.
	Middle		3	29	
	Sun riſeth		3	56	
	End		4	22	

Digits at the Middle 5d. 51′ At ☉ riſe 4d. 14′



A.B. a vertical paſſing thro' the Sun; I.K. the Way of the ☾

G.H.	the Line connecting the Centers of ☉ & ☾ at the	Begining
L.M.		Middle
C.D.		☉ riſe
E.F.		End

N,d,H the portion of the ☉'s Body Eclipſed at the Middle; a.b.c. at Sun riſe.

☾ 1. The ☾'s Center at the Beg

☾ 2. at the Middle.

☾ 3. at Sun riſe.

☾ 4. at the End of the Ecl.

H. the point of the ☉'s Lim where it begins; N. the Poi where it ends.

The 4th is of the Moon *July* 18. about 4 in the Afternoo therefore inviſible here. The Fifth and laſt is of the Su *Dec.* 28. about 11 in the Morning, but the Moon's Paralax being great, depreſſes her below the Sun's Limb, and is inviſib here.

A Table of Equation of Natural Days, for the better proving the Truth of the Motion of Clocks and Watches for the firſt ſix Months of the Year 1730.

M.D.	January m.	January ſ.	Febr. m.	Febr. ſ.	March m.	March ſ.	April m.	April ſ.	May m.	May ſ.	June m.	June ſ
1	8	50	14	48	10	6	0	too faſt. 49	4	9	1	too ſlow. 5
2	9	21	14	47	9	55	0	32	4	11	0	53
3	9	43	14	45	9	34	0	16	4	12	0	40
4	10	5	14	42	9	17	0	1	4	13	0	28
5	10	20	14	38	8	53	0	*14	4	12	0	16
6	10	45	14	33	8	41	0	29	4	11	0	*3
7	11	5	14	28	8	24	0	44	4	10	0	10
8	11	24	14	23	8	5	0	58	4	8	0	23
9	11	40	14	Watch too faſt. 14	7	Watch too faſt. 47	1	12	4	6	0	36
10	11	Watch too faſt. 57	14	9	7	29	1	Watch too ſlow. 26	4	Watch too ſlow. 4	0	49
11	12	14	14	1	7	10	1	38	4	1	1	Watch too faſt. 1
12	12	30	13	52	6	52	1	51	3	57	1	14
13	12	44	13	43	6	33	2	3	3	52	1	27
14	12	58	13	34	6	15	2	14	3	47	1	40
15	13	12	13	24	5	50	2	24	3	42	1	53
16	13	24	13	13	5	37	2	34	3	35	2	5
17	13	35	13	2	5	28	2	40	3	29	2	17
18	13	46	12	50	5	0	2	56	3	23	2	29
19	13	56	12	37	4	41	3	4	3	15	2	41
20	14	5	12	25	4	25	3	12	3	7	2	53
21	14	13	12	12	4	3	3	20	2	58	3	4
22	14	20	11	57	3	44	3	28	2	50	3	16
23	14	27	11	45	3	26	3	35	2	41	3	27
24	14	32	11	28	3	8	3	42	2	31	3	38
25	14	37	11	13	2	49	3	47	2	21	3	48
26	14	41	10	58	2	31	3	52	2	11	3	59
27	14	44	10	42	2	13	3	56	2	1	4	9
28	14	47	10	25	1	55	4	0	1	51	4	19
29	14	48			1	38	4	3	1	40	4	27
30	14	49			1	22	4	6	1	28	4	35
31	14	49			1	5			1	17		

A Table of Equation of Natural Days, for the better proving the Truth of the Motion of Clocks and Watches, the laſt ſix Months of the Year 1730.

M.D.	July		Auguſt		Septem.		October		Novem.		Decemb	
	m.	ſ.	m.	ſ.	m.	ſ.	m.	ſ	m.	ſ.	m.	ſ.
1	4	43	4	30	3	48	13	14	15	23	5	42
2	4	51	4	20	4	9	13	28	15	15	5	13
3	4	58	4	10	4	29	13	43	15	5	4	45
4	5	5	4	0	4	50	13	56	14	55	4	16
5	5	11	3	49	5	10	14	8	14	44	3	47
6	5	17	3	37	5	31	14	20	14	32	3	17
7	5	23	3	24	5	52	14	31	14	20	2	47
8	5	28	3	11	6	12	14	41	14	6	2	17
9	5	32	2	58	6	33	14	51	13	52	1	47
10	5	35	2	44	6	53	15	1	13	38	1	18
11	5	38	2	30	7	14	15	11	13	21	0	38
12	5	41	2	16	7	34	15	20	13	4	0	18
13	5	43	2	2	7	54	15	26	12	47	0 *	12
14	5	45	1	46	8	14	15	32	12	28	0	42
15	5	46	1	30	8	33	15	38	12	9	1	12
16	5	46	1	13	8	53	15	44	11	50	1	42
17	5	45	0	56	9	13	15	49	11	30	2	11
18	5	44	0	39	9	32	15	52	11	9	2	40
19	5	42	0	21	9	52	15	55	10	47	3	09
20	5	40	0	3	10	11	15	57	10	25	3	38
21	5	38	0 *	14	10	30	15	59	10	2	4	7
22	5	35	0	31	10	48	16	1	9	38	4	35
23	5	31	0	50	11	6	16	0	9	14	5	2
24	5	27	1	9	11	24	15	59	8	49	5	29
25	5	22	1	29	11	41	15	57	8	23	5	57
26	5	16	1	49	11	58	15	55	7	57	6	23
27	5	10	2	7	12	14	15	52	7	31	6	50
28	5	3	2	27	12	29	15	48	7	5	7	16
29	4	56	2	47	12	45	15	43	6	36	7	41
30	4	48	3	8	13	0	15	37	6	10	8	6
31	4	39	3	28			15	21			8	29

Watch too faſt.

Watch too faſt.

Too ſlow.

Watch too ſlow.

Watch too ſlow.

Watch too ſlow.

Watch too ſlow.

Watch too faſt.

The Equation of Time in the foregoing Table mentioned, ariſeth from the difference of the Right Aſcenſions of the Equinoctial, and the Zodiack, together with the Equation of the Sun's or Earth's Annual Motion; whoſe ſum if of like Denomination or Difference, if unlike, is the abſolute Equation of Time, according to Mr. *Tho. Street* in his *Aſtronomia Carolina.*

Hence 'tis concluded, that a good and well adjuſted Clock, or Watch, ought to be at all times ſo much Faſter or Slower than the apparent Time ſhewn by a good Sun-Dyal, as in the foregoing Table mentioned; and for the greater exactneſs in examining, 'tis beſt to compare by the ſame Sun-Dyal, and at the ſame time of Day, as oft as may be.

Of the Four Quarters of the Year: And firſt of the Spring,

SPring Quarter begins *March* 9. 53 m. after 6 at Night, the *Sun* then entring the firſt Point of *Aries*, (or the Earth *Libra*) making equal Day and Night to all (except under the *Poles.*) This Quarter generally is hot and moiſt.

2. *Of Summer.*

This Quarter begins *June* 10. 1 m. after 9 at Night, making the longeſt Day and ſhorteſt Night to all on this ſide the Equator. This Quarter naturally is hot and dry.

3. *Of Autumn.*

Autumn this Year begins *September* 12. 10 h. 52 m. Manè, the Earth then entring *Aries*, or the Sun *Libra*, again making equal Day and Night. This Quarter is naturally cold and dry, reſembling melancholly.

4. *Of Winter.*

Which begins *December* 10. 35 m. after Midnight, making our ſhorteſt Day and longeſt Night, and is naturally cold & moiſt.

To find the Riſing, Southing and Setting, of ſeveral fixed Stars hereafter mentioned.

IN the Tables following you have firſt the ſeven Stars Southing for every fifth day: In the ſecond Table is ſet the difference betwixt the Southing of thoſe Stars therein named, and the ſeven Stars, which difference being added to the time of the ſeven Stars Southing, giveth theirs. In the ſame Table is alſo ſet their ſemidiurnal Arches, thereby to find the riſing and ſetting of the ſaid Stars. Suppoſe it is required to know what time the great Dog-ſtar, called *Syrius*, will be South the 11th of *February*? I then find the Seven Stars South a 5 hours 10 minutes, to which I add 3 hours 2 minutes th difference annexed to the great Dog-Star, and it makes 8 hour 12 minutes, being the time of its Southing the ſaid 11th o *February*. If to the Southing you add the Semidiurnal Arch 4 hours 31 minutes, it gives the time of its ſetting at 12 hours 43 minutes; but if you ſubſtract the Semidiurnal Arch from the Southing, it leaveth the time of its Riſing. The like may be done by any other of the ſaid Stars.

For the better diſtinction of the ſeveral ſizes of Stars they are divided into ſix ſeveral magnitudes. The biggeſt an brighteſt Stars are called Stars of the firſt Magnitude. Thoſ one ſize inferiour in light, and bigneſs, are called Stars of th ſecond Magnitude, *&c.* Now for the better knowing the Star hereafter-mentioned; Note, That the great Dog-ſtar, Lion's-Heart, Virgins Spike, and the bright ſtar of *Lyra*, are accounted ſtars of the firſt magnitude, ſo are alſo *Aldebaran* and *Arcturus*, but they are Red Stars, much of the colour of *Mars*, all the reſt in the Table are of the ſecond magnitude, excep the Northern and Southern *Aſſ.* which are ſmall Stars, bein of the fourth magnitude.

A Table ſhewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1730.

Months.	Days of the Month.											
	1		6		11		16		21		26	
	H.	M.	H:	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7 A	57	7 A	36	7 A	14	6 A	53	6 A	32	6 A	12
February	5 A	49	5	29	5	10	4	51	4	32	4	14
March	4 A	0	3	41	3	23	3	4	2	46	2	28
April	2 A	7	1	48	1	30	1	11	0	52	0	32
May	0 A	14	11 M	54	11 M	34	11 M	14	10 M	53	10 M	33
June	10 M	8	9	47	9	26	9	6	8	45	8	25
July	8 M	5	7	45	7	24	7	4	6	45	6	25
Auguſt	6 M	3	5	45	5	26	5	8	4	49	4	31
September	4 M	10	3	52	3	34	3	17	3	0	2	41
October	2 M	22	2	3	1	44	1	25	1	5	0	46
November	0 M	22	0	2	11 A	39	11 A	16	10 A	54	10	32
December	10 A	11	9 A	49	9	26	9	4	8	41	8	20

Table ſhewing the difference in hours and minutes between the coming to ſouth of ſeveral fixed ſtars, and the ſeven ſtars, as alſo their ſemi-diurnal Arches thereby to find their riſing and ſetting.

ames of the Stars.	Diffe. ſouth. h.	m.	ſemid. Arches h.	m.	Names of the Stars.	Diff. ſouth. h.	m.	ſemid. Arches h.	m.
ldebaran B.eye	0	49	7	28	Lions heart, Baſil.	6	23	7	13
d.In Orions Girdle	1	51	5	54	Virgins Spike	9	40	5	9
Gr. Dog. Syrius	3	2	4	31	Arcturus	10	32	8	0
aſtor 1ſt.head ♊	3	46	9	47	South ballance	11	5	4	40
Lt.Dog procyon	3	54	6	32	North ballance	11	31	5	16
ollux,2d.head ♊	3	57	9	4	Northern Crown	11	52	8	55
orthern Aſſ.	4	56	8	12	bright ✱ Lyræ	14	57	ſets	not
outhern Aſſ.	4	58	7	49	bright ✱ Vulturis	16	6	6	43

Here followeth ſome few Rules, and Tables, for the menſuration of Superficies and Solids.

FOr the Menſuration of ſuperficial or flat meaſures, ſuch as Board, Glaſs, Pavement, Hangings, &c. it will be ne-ſary to know how to meaſure any plain ſuperficial figure, as e Square, Long-ſquare, or Parallelogram, Triangle, Circle, rts of the Circle, *&c.* examples of all which do here follow.

I. *How to meaſure a Square.*

Let there be a ſquare floor, or pavement, the des whereof are each of them 5 feet 6 inches, d 'tis required to know how many ſquare, or perficial feet are contained therein. Firſt (a od plain way to avoid Fractions will be to) Re-ce the whole ſide into inches, 5 feet, 6 inches, ing 66 inches, multiply 66 by 66, and the Pro-ct will be 4356, the ſuperficial content in in-es; then divide 4356 by 144 (the ſquare inches one foot) and the quotient will be 30 feet, and inches remaining, which is the number of in-es in one quarter of a foot; ſo that in ſuch a uare is contained 30 feet and one quarter. See e Margin.

66
66
———
396
396
———
4356

4356
144
———(30
432
36

II. *To meaſure the Long-ſquare or Parallelogra*

Suppoſe there be a Pavement whoſe length is 72 feet, and breadth 12 feet, how many feet is contained therein.

Multiply 72 in length, by 12 the breadth, and the product will be 864, and ſo many ſuperficial feet are contained in that Pavement.

72
12
144
72
864

III. *To Meaſure a Long Superficies, which is broader at one en than at the other.*

Let there be a ſuperficies whoſe length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the leſſer end 34 inches, and let it be required to know how many feet are contained therein. Firſt, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplyed by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, ſo that there is exactly 21 feet in ſuch a ſuperfic

72
42
144
288
3024
144
288 (2
144

IV. *How to Meaſure Triangles.*

All Right lined Triangles are meaſured by this general Rul Multiply half the length of the Baſe by the whole Perpendi lar. Or, the whole length of the Baſe by half of the Perpendicu

Suppoſe the Baſe of a Triangle be 44, and the Perpendi lar 26, what is the Content.

Multiply 44 (the Baſe) by 13, (half the perpendicular) Product will be 572 : Or 22 (half the Baſe) being multipl by 26, (the whole perpendicular) the Product will be 572, before, which is the Content of ſuch a Triangle.

V. All *Trapezias*, or Figures with four unequal ſides ; Multangular, or many ſided irregular Figures, muſt be divi into Triangles, and thoſe Triangles meaſured as before is taug and their ſums added together will give the content of ſuch ir gular Figures. And note, that the leaſt number of Triangles, i which any plot or irregular figure may be reduced, will be by two than the number of the ſides of ſuch irregular figures

VI. *How to meaſure Circles, and parts of Circles.*

The Diameter of every Circle hath ſuch proportion to circumference of the ſame Circle as 7 hath to 22. Theref

Diameter being given to find the circumference, you muſt ltiply the Diameter by 22, and the product being divided 7, the Quotient will be the circumference. Thus, ſuppoſe Diameter of a Circle be 14, multiply 14 by 22, the prot will be 308, which being divided by 7, the Quotient is 44, ng the circumference of that Circle whoſe Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide 22. and the Quotient will be the Diameter. Let the cirmference of a circle be 60, multiply 60 by 7 the product ll be 420, which being divided by 22, the Quotient will be , and $\frac{2}{22}$ or $\frac{1}{11}$ which is the Diameter.

To find the Area or Superficial content of a Circle. Multi half the circumference by half the Diameter, the product the content of the Circle: Thus, Let the circumference be , the half whereof is 30, and the Diameter 19 $\frac{2}{22}$ the half ereof is 9$\frac{12}{22}$, by which multiplying 30, the product will be 6$\frac{4}{11}$ which is the ſuperficial content of ſuch a Circle; or,

By the Diameter to find the Area of the circle. Firſt, ſquare Diameter, multiply the ſquare by 11, and divide the prot by 14, the Quotient is the ſuperficial content of the circle. Let the Diameter be as above 19 $\frac{1}{11}$ the ſquare whereof is 4$\frac{56}{121}$ this multiplied by 11 produceth 4009$\frac{1}{11}$ which being ided by 14 the Quotient is 286$\frac{4}{11}$ as above, being the ſuperl content of ſuch a circle.

To meaſure the ſuperficial content of half the circle, the rter of a circle, or of any other ſection of a circle, more or , having the ſemidiameter given.

Multiply half of the compaſs thereof by the ſemidiameter of circle, ſo ſhall you have the content.

Of the Menſuration of Solids.

S Plain or Superficial Meaſure conſiſteth of two dimenſions, namely, length and breadth; ſo Solid meaſure conſiſt of three dimenſions, namely, length, breadth and thickneſs.

o meaſure any kind of Timber, either Square, Triangular, Round, or of any other Faſhion, provided it be ſtraight and equal all along.

Caſt up the ſuperficial Content at the end thereof, by the es before going, for the finding the Content of the Square, ngle, Circle, &c. which Superficial Content being multiplyed

plyed by the length of the Piece, will give you the Solid C tent thereof. *Example.* Let there be a piece of Timber, other ſolid matter) whoſe breadth is 18 inches, its depth inches, and length 142 inches, to find how many ſolid feet contained therein. Firſt, multiply the breadth 18 by the de 13, the product is 234, being the ſuperficial inches at the of the piece. Secondly, multiply this 234 by 142 the len of the piece, and the product will be 33228, the ſolid Con in inches. Thirdly, divide 33228 by 1728,(being the numbe cubical inches in one ſolid foot) and the quotient will be 19, 396 inches remaining, which is 19 ſolid feet, and almoſt quarter of a foot,and ſo much is the ſolid content of ſuch a pi

A 2d Example of a round piece. Let there be a round piec Timber whoſe compaſs is 60 inches, and the length 20 feet, 240 inches) and let it be required to find the ſolid cont thereof. Firſt, by the help of the circumference 60, find the Dia ter (as before is taught) by multiplying 60 by 7, and dividing product thereof by 22, ſo ſhall you find the Diameter to be 19 Then by either of the ways before taught, *viz.* by multiplyin the circumference by $\frac{1}{2}$ the Diameter; or by (ſquaring, or) m tiplying the Diameter in it ſelf, and multiplying that ſquare 11, and dividing the product by 14, the ſuperficial content of end of ſuch a piece will be found to be $286\frac{4}{11}$ inches. Now mu ply this $286,\frac{4}{11}$ by the length of the piece 240, and the prod will be $68727\frac{3}{11}$ the content in inches, which being divided 1728, the quotient will be 39 feet, and $\frac{1}{4}$ of a foot, and $39,\frac{1}{11}$ in remaining, which is the ſolid content of ſuch a piece of Timb But had this piece of Timber been meaſured by that egregiou falſe way of taking $\frac{1}{4}$ part of the Girt for the ſide of the ſquar qual, it would have been found to be but 31 feet and $\frac{1}{2}$ of a fo which is above $\frac{1}{5}$ part leſs than the truth, it being 39 feet, & abov

In behalf of that erroneous way many do plead, that in rou Timber there is great loſs in chipping to bring it near a ſqua therefore that way may be allowed; but this is very unequ in great Timber there being little loſs, in ſmall Timber mu let therefore the quality be conſidered, rather than make ſu unequal amends by a falſe quantity.

Of the Menſuration of Tapering Timber, either round or ſquared, ſuch Fruſtums of Cones and Pyramids.

First find the ſuperficial Area of each end of the piece, a multiply the one Area by the other. Secondly, out product of the two Area's, extract the Square Root. irdly, add this Root and the two Area's all into one ſum. ſtly, multiply this ſum by one third part of the length of the ece, and that product ſhall give you the Content.

Let there be a piece of Timber whoſe Circumference at the ater end is 66 inches, at the leſſer end 44 inches, and the gth 20 feet, and it is required to find how many ſolid feet contained therein. Firſt, the Area of the Circle at the ater end (by multiplying half the Circumference 33 by half Diameter 10½) will be found to be 346½, and the Area of Circle at the leſſer end will be 154: Theſe multiplyed together do produce 53361. Secondly, out of this product ex- ct the Square Root, which is 231, (for 231 being multiplyed itſelf produceth 53361). Thirdly, add the two Areas, and Square Root 231 together, and the ſum of them will be 1½. laſtly, multiply 731½ by 80 inches, (one third t of the length) and the product will be 58520, being the id inches contained therein, which inches being divided by 28, the Quotient will be 33 feet, and 1496 inches remain- g, which is 3 quarters of a foot, and almoſt half a quarter.

To find the Content of Tapering Timber, other ways than is taught above.

Theſe pieces being parts of Cones or Pyramids, their Con- ts may be found by ſeeking the Content of the whole Cone Pyramid, (of which they are part) and the Content of that t which is wanting, for that part being ſubſtracted from the ole, the remainder muſt be the Content of the part required. Now the way to find the content of a Cone or Pyramid is, multiply the ſuperficial Content of the Baſe by one third t of the length; and to find the length of the top part of a ne or Pyramid which is wanting; ſay thus, As the difference the ſides, or Diameters of the two ends, to the length between them; ſo is the ſide, or Diameter of the greater end, the whole length. *Example*, of the piece before mentioned, oſe greater end is 66 inches about, and the leſſer end 44; nce the Diameter of the greater end will be 21, and the Di- eter of the leſſer end will be 14, and their difference is 7, erefore ſay, If 7 give 20 feet what will 21 give? Anſwer, 60 et; being the whole length of the Cone: Now the ſuperficial

content

content of the Baſe of this Cone, (being 346$\frac{1}{2}$ inches) mul
plyed by 240 inches, (one third part of the length of the who
Cone) produceth 83160 inches, the content of the whole Con
And the ſuperficial content of the leſſer end, (which is t
Baſe, of the top (or wanting) part of the Cone) which is 15
being multiplyed by 160, (one third part of the length of t
top (or wanting) part) produceth 24640 inches, the content
the wanting part, which being ſubſtracted from 83160, (t
content of the whole Cone) the remainder is 58520 inches, t
content of the part required, being the ſame as before.

Here followeth Tables ready calculated, for the Meaſuring
Squared or Round Timber, which is ſuppoſed to be equal
along: Their Uſe is thus; ſe the ſide of the Squared, or com
paſs of the Round Timber, in the firſt, third or fifth colum
of the Tables, and againſt it, in the next column, you have t
length of a ſolid foot. Thus, the ſide of a ſquared piece of Tim
ber being 20 inches, the length of a ſolid foot will be 4 inch
and 3 tenth parts of an inch: And the compaſs of a roun
piece, being 80 inches, the length of a ſolid foot will be found
be 3 inches, and 39 hundredth parts of an Inch.

A Table, ſhewing how much in length will make a Solid Foo
of any Square Stone or Timber: The ſide of the Square be
ing given in Inches, from 1 Inch to 36 Inches ſquare.

Side of the Square.	Length of a ſolid foot			Side of the Square	Length of a ſolid foot.		Side of the Square	Length of ſolid foo	
Inch.	Fe.	inc.	10ths	Inch.	Inch.	10ths	Inch.	Inch.	10th
1	144	0	0	13	10	2	25	2	8
2	36	0	0	14	8	8	26	2	6
3	16	0	0	15	7	6	27	2	3
4	9	0	0	16	6	7	28	2	2
5	5	9	2	17	5	9	29	2	1
6	4	0	0	18	5	3	30	1	9
7	2	11	2	19	4	8	31	1	8
8	2	3	0	20	4	3	32	1	7
9	1	9	3	21	3	9	33	1	6
10	1	5	3	22	3	5	34	1	5
11	1	2	3	23	3	3	35	1	4
12	1	0	0	24	3	0	36	1	2

A Ta

A Table ſhewing how many inches in length will make a foot ſolid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compaſs to 100.

Com.	len. of a foot		Com.	len. of a foot		Com.	len. of a foot	
Inch.	Inch.	100 p	Inch.	Inch:	100 p.	Inch.	Inch.	100 p.
11	179	46	41	12	92	71	4	31
12	150	80	42	12	31	72	4	20
13	128	49	43	11	74	73	4	08
14	110	79	44	11	31	74	3	97
15	94	31	45	10	72	75	3	86
16	84	82	46	10	26	76	3	76
17	75	14	47	9	83	77	3	66
18	67	02	48	9	42	78	3	57
19	60	15	49	9	04	79	3	48
20	54	29	50	8	69	80	3	39
21	49	23	51	8	35	81	3	31
22	44	86	52	8	03	82	3	23
23	40	90	53	7	73	83	3	15
24	37	69	54	7	42	84	3	08
25	34	74	55	7	18	85	3	01
26	32	12	56	6	92	86	2	94
27	29	79	57	6	68	87	2	87
28	27	70	58	6	45	88	2	80
29	25	82	59	6	24	89	2	74
30	24	13	60	6	03	90	2	68
31	22	60	61	5	84	91	2	62
32	21	21	62	5	65	92	2	57
33	19	92	63	5	47	93	2	51
34	18	78	64	5	30	94	2	46
35	17	74	65	5	14	95	2	41
36	16	76	66	4	98	96	2	36
37	15	86	67	4	84	97	2	31
38	15	04	68	4	70	98	2	26
39	14	28	69	4	56	99	2	22
40	13	57	70	4	43	100	2	17

Advertiſements.

ARTIFICIAL TEETH Set in ſo firm as to with them, and ſo exact as not to be diſtinguiſh'd fr Natural; they are not to be taken out at Night, as is by ſo falſly ſuggeſted, but may be worn Years together; yet are th ſo fitted as that they may be taken out and put in, by the P ſons who wear them, at Pleaſure; and are an Ornament to Mouth, and greatly helpful to the Speech. Alſo Teeth Clea and Drawn, by *John Watts* and *Samuel Rutter*, Operators, w apply themſelves wholly to the ſaid Buſineſs, and Live *Raquet-Court*, *Fleet-ſtreet*, *London*.

TRuſſes for Ruptures, Inſtruments for help to the Lame Crooked: By *Peter Bartlett*, Steel Truſs Maker to Cheſt at *Chatham* for the help of his Majeſty's Seam at the Golden Ball in St. Paul's Church-Yard, London. Perſo in the Country ſending their Bigneſs, and which ſide Rupture is, may be ſupply'd with the Truſſes, and prop Directions.

His Mother, Mrs. *M. Bartlett*, at the Golden Ball in Fle ſtreet, near Fleet-bridge, is skilful in this Buſineſs to h own Sex.

IF any Gentleman, or other Perſon, would have his La ſurveyed, or any Building or Edifice meaſured, either f *Bricklayers*, *Carpenters*, *Maſons*, *Plaiſterers*, *&c.* the Author this Almanack will perform the ſame, either for Maſter Work-men. And if any Perſon would have about his Hou or Gardens, any Sun-Dials, either Direct, Declining, Inclinin Reclining, Concave, Convex, or Reflective, he will make prepare for them ſuch as they ſhall deſire.

From Stapleford, *near* Melton-Mowbr
in the County of Leiceſter,

Die ☽, Sept. 1. 1729